ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO.	2. DELIVERY ORDER/ CALL NO.	3. DATE OF ORDER/CALL (YYYYMMMDD)	4. REQ./ PURCH. REQUEST NO.	5. PRIORITY
N0016417GJQ02	N0016418FJ276	2018 Sep 19	1300740336	

6. ISSUED BY CODE N00164

NAVAL SURFACE WARFARE CENTER CRANE DIV
(b)(6)
BLDG 121
300 HWY 361
CRANE IN 47522-5001

7. ADMINISTERED BY *(if other than 6)* CODE S4402A

DCMA DALLAS
600 NORTH PEARL STREET
SUITE 1630
DALLAS TX 75201-2843

8. DELIVERY FOB
- [ ] DESTINATION
- [X] OTHER

(See Schedule if other)

9. CONTRACTOR CODE 96214 FACILITY

NAME AND ADDRESS
RAYTHEON COMPANY
RAYTHEON
(b)(6)
2501 W UNIVERSITY DR
MCKINNEY TX 75071-2813

10. DELIVER TO FOB POINT BY (Date) *(YYYYMMMDD)*
SEE SCHEDULE

11. MARK IF BUSINESS IS
- [ ] SMALL
- [ ] SMALL DISADVANTAGED
- [ ] WOMEN-OWNED

12. DISCOUNT TERMS

13. MAIL INVOICES TO THE ADDRESS IN BLOCK
See Item 15

14. SHIP TO CODE

SEE SCHEDULE

15. PAYMENT WILL BE MADE BY CODE HQ0339

DFAS - COLUMBUS CENTER
WEST ENTITLEMENT OPERATIONS
P.O. BOX 182317
COLUMBUS OH 43218-2381

MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.

16. TYPE OF ORDER

DELIVERY/ CALL	X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:

ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR | SIGNATURE | TYPED NAME AND TITLE | DATE SIGNED (YYYYMMMDD)

- [ ] If this box is marked, supplier must sign Acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE

See Schedule

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	SEE SCHEDULE				

* *If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.*

24. UNITED STATES OF AMERICA
TEL: (b)(6)
EMAIL: (b)(6)
BY: (b)(6)
(b)(6)
CONTRACTING / ORDERING OFFICER

25. TOTAL $9,359,975.00
26. DIFFERENCES

27a. QUANTITY IN COLUMN 20 HAS BEEN
- [ ] INSPECTED
- [ ] RECEIVED
- [ ] ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE | c. DATE (YYYYMMMDD) | d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE

e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE

f. TELEPHONE NUMBER | g. E-MAIL ADDRESS

36. I certify this account is correct and proper for payment.

a. DATE (YYYYMMMDD) | b. SIGNATURE AND TITLE OF CERTIFYING OFFICER

28. SHIP NO. | 29. DO VOUCHER NO. | 30. INITIALS

- [ ] PARTIAL
- [ ] FINAL

31. PAYMENT
- [ ] COMPLETE
- [ ] PARTIAL
- [ ] FINAL

32. PAID BY

33. AMOUNT VERIFIED CORRECT FOR

34. CHECK NUMBER

35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.

Section A - Solicitation/Contract Form

This order is issued under and pursuant to the provisions of N0016417GJQ02 (the "Agreement"). The terms and conditions of the Agreement are hereby incorporated by reference and, except as provided herein by this order, remain in full force and effect. The Cost Plus clauses in the BOA are incorporated by reference.

This Job Order is $9,359,975.00. [redacted] excludes FCCOM. This order is incrementally funded at $70,000.

This order includes the following type of priced items:

Item Number Item Type*

0001 Engineering Services CPFF
0002 Repair CPFF
0003 Travel COST
0004 Material/ODCs CPFF
0005 DATA CPFF
9000 Ceiling CPFF

*CPFF- Cost Plus Fixed Fee
*Cost- Cost only (no fee)

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001					$0.00

Engineering Services
CPFF Engineering Services for MTS Life Cycle Sustainment IAW Statement of Work.

This CLIN is Level of Effort.

This is an INFO ONLY CLIN. No funding will be placed against this CLIN.

ESTIMATED COST	$0.00
FIXED FEE	$0.00
TOTAL EST COST + FEE	$0.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AA		1	Lot		$70,000.00

Engineering Services
CPFF Engineering Services for MTS Life Cycle Sustainment IAW Statement of Work.

This CLIN is Level of Effort.

Funding in support of TI-0001 for (b)(4) (b)(4) to support the MQ-4C Triton Program.
FOB: DestinationPR #: 1300740336PSC: K070

ESTIMATED COST	(b)(4)
FIXED FEE	
TOTAL EST COST + FEE	$70,000.00

Contract ACRN AACIN: 130074033600001 $70,000.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002		1	Lot		NSP

MTS Maintenance and Repair
CPFFMaintenance and Repair IAW Statement of Work.

This is an INFO ONLY CLIN. No funding will be placed against this CLIN.
FOB: DestinationPSC: J016

ESTIMATED COST	$0.00
FIXED FEE	$0.00
TOTAL EST COST + FEE	$0.00

ITEM NO	SUPPLIES/SERVICES	QTY	U/I	ESTIMATED COST
0003	Travel	1	Lot	$0.00

Travel in support of MTS IAW Statement of Work.

This travel CLIN will support all labor for the entire period of performance.

This CLIN does not include fee.

This is an INFO ONLY CLIN. No funding will be placed against this CLIN.

PSC: J016
FOB: Destination
COST

ITEM NO	SUPPLIES/SERVICES	QTY	U/I	EST COST	FIXED FEE	TOTAL EST CPFF AMT
0004	Material/ODCs	1	Lot	$0.00	$0.00	$0.00

Material/ODCs for MTS IAW Statement of Work.

This is an INFO ONLY CLIN. No funding will be placed against this CLIN.

PSC: J016
FOB: Destination
CPFF

ITEM NO	SUPPLIES/SERVICES	QTY	U/I	EST COST	FIXED FEE	TOTAL EST CPFF AMT
0005	DATA IAW DD1423	1	Lot	$0.00	$0.00	$0.00

Data/Tech Data Requirements for:

CLIN(s) 0001 thru 0005 in accordance with (IAW) the Statement of Work (SOW), CDRL(s) A0001 thru B016 provided in Section J, and applicable DID(s).

PSC: J016
FOB: Destination
CPFF

ITEM NO	SUPPLIES/SERVICES	QTY	U/I	EST COST	FIXED FEE	TOTAL EST CPFF AMT
9000	Ceiling	1	Lot	(b)(4)	(b)(4)	$9,289,975.00

This CLIN is INFORMATIONAL PURPOSES ONLY to populate the contract ceiling amount. No funding will be placed against this CLIN.

DO NOT INVOICE THIS CLIN. Raytheon shall invoice the funded SLINs herein. This CLIN is to calculate the remaining ceiling available.

PSC: J016
FOB: Destination
CPFF

Section C - Descriptions and Specifications

STATEMENT OF WORK

STATEMENT of WORK

FOR

TRITON MTS ENGINEERING SERVICES CONTRACT

Contract: N00164-17-G-JQ02
Job Order: 0010

Date: 06 December 2017
Revision -

Prepared by:

Triton MTS Task Manager Airborne Electro-Optics

Naval Surface Warfare Center, Crane Division
Electro-Optics Technology Division
Airborne EO Branch
Crane, IN 47522

Triton MTS Engineering Services SOW

1.0 SCOPE

This Statement of Work (SOW) sets forth the requirements to provide Engineering Support for Production and Fleet Integration of the Triton Multi-Spectral Targeting System (MTS) on the Navy MQ-4C Unmanned Aircraft System. This effort shall include; project management, support, systems engineering support, logistics support, configuration management, integration, test and evaluation, analyses, repair, training, and meeting attendance. Contractor shall execute according to this SOW and any additional level of effort requested and directed by Task Instruction (TI).

2.0 APPLICABLE DOCUMENTS

The following documents are applicable to this SOW to the extent specified herein. In the event of conflict between the applicable documents and this SOW, the SOW and the DAS-3 Specification shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained. Additional documents pertinent to specific task requirements may be identified in TI's. Unless otherwise stated, the following documents may be obtained from the Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094 or visit http://dodssp.daps.mil.

2.1 BAMS Electro-Optics Infrared System (BEIS) Documents BEIS Documents

Table 1 – BAMS BEIS Documents

Document ID	Date	Document Description
(b)(4)	27 MAY 15	BAMS EO/IR Sensor (BEIS) AN/DAS-3, Interface Control Document
(b)(4)	14 MAY 15	BEIS (AN/DAS-3), Performance Specification
(b)(4)	04 MAR 15	BEIS (AN/DAS-3), Environmental Stress Screening Test Procedure
(b)(4)	14 NOV 14	BEIS (AN/DAS-3), CRM Retest Matrix
(b)(4)	04 MAR 15	BEIS (AN/DAS-3), Acceptance Test Procedure
(b)(4)	Latest	BEIS (AN/DAS-3),Physical Configuration Audit Plan
02-242 3	Latest	Triton Security Guide
262 CM Plan	06 APR 15	PMA 262 Configuration Management Plan

2.2 Other Documents

Table 2 – Other Documents

Document ID	Date	Document Description
DAG	28 JUN 13	Defense Acquisition Guidebook (DAG)

DAU	01 AUG 06	The Defense Acquisition University (DAU) Risk Management Guide for DoD Acquisition, Sixth Edition (Version 1.0)
DFARS	30 DEC 15	Defense Federal Acquisition Regulation Supplement
DOD 5220.22-M	28 MAR 13	National Industrial Security Program Operating Manual (NISPOM)
DODI 5000.02	07 JAN 15	Operation of the Defense Acquisition System
DODI 5200.01	24 FEB 12	Information Security Manual
DOD 5200.1-H	14 NOV 99	DoD Handbook for Writing Security Classification Guidance
DODI 8140.01	11 AUG 15	Cyber Workforce Management
DODI 8510.01	12 MAR 14	Risk Management Framework (RMF) for DoD Information Technology (IT)
MIL-DTL-38769F	15 SEP 17	Manuals, Technical – Work Unit Code
MIL-HDBK-61A	07 FEB 01	Configuration Management Guidance
MIL-STD-785B No. 3	30 JUL 98	Reliability Program for Systems and Equipment Development and Production
MIL-STD-881C	03 OCT 11	Work Breakdown Structures for Defense Material Items
MIL-STD-882E	11 MAY 12	Standard Practice for System Safety
MIL-STD-31000A	26 FEB 13	Technical Data Packages
MIL-STD-1812	14 FEB 97	Type Designation Assignment & Method for Obtaining CNX
N00164-17-G-JQ02	25 SEP 17	Raytheon Basic Ordering Agreement Statement of Work
NAVAIRINST 4130.1D	19 DEC 06	Naval Air Systems Command Configuration Management Process
NAVAIR Manual 00-25-403	01 JUL 05	Guidelines for the Naval Aviation Reliability-Centered Maintenance Process
OPM	09 JUL 13	Guide to Data Standards; Cyber Security Data Element Standard
SD-22	01 AUG 12	Manufacturing Sources and Material Shortages: A Guidebook of Best Practices for Implementing a Robust DMSMS Management Program
SECNAV 4855.5A	20 JUL 93	Product Quality Deficiency Report
SECNAV M-5239.2	01 JUN 16	Department of Navy Cybersecurity Workforce Management and Qualification Manual
SECNAVINST 5239.3C	02 MAY 16	Department of the Navy Cybersecurity Policy
SECNAVINST 5239.20A	10 FEB 16	Department of the Navy Cyberspace Information Technology and Cybersecurity Workforce Management and Qualification

2.3 Non-Government Documents

Table 3 – Non-Government Documents

Document ID	Date	Document Description
ISO 9001	15 SEP 15	9001:2015 Quality Management Systems-Requirements
ISO 9660 AMD 1	01 MAY 13	Information processing - Volume and file structure of CD-ROM for information interchange AMENDMENT 1 - First Edition
ISO/IEC 26702	15 JUL 07	Systems Engineering - Application and Management of the Systems Engineering Process
SAE GEIA-STD-0007B	01 MAY 13	Logistics Products Data
SAE EIA-649-1	01 NOV 14	Configuration Management Requirements For Defense Contracts
SAE EIA-649-2	04 MAR 15	National Consensus Standard for Configuration Management
SAE EIA-649B	01 APR 11	Configuration Management Standard
SAE EIA-748C	01 MAR 13	Earned Value Management Systems
ASME Y14.24	14 FEB 00	Drawings Types and Applications of Engineering Drawings

3.0 REQUIREMENTS

As a basic requirement of this Job Order (JO), Contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items as required and non-personal services for the Triton program as defined in this SOW and subsequent TI's for Paragraphs 3-20.

3.1 Contract Status Reporting (Execute without TI)

Contractor agrees to upload the Contractor's Funds and Man-hour Expenditure Reports into the Electronic Cost Reporting and Financial Tracking (eCRAFT) System and submit the CPSM Report on the same day and for the same timeframe the Contractor submits an invoice into the Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT) system. Compliance with this requirement is a material requirement of this contract. Failure to comply with this requirement may result in contract termination.

The Contractor's Funds and Man-hour Expenditure Report reports contractor expenditures for labor, materials, travel, subcontractor usage, and other contract charges.

(1) Access:

eCRAFT: Reports are uploaded through the eCRAFT System Periodic Report Utility (EPRU). The EPRU spreadsheet and user manual can be obtained at: http://www.navsea.navy.mil/Home/Warfare-Centers/NUWC-Newport/Partnerships/Commercial-Contracts/Information-eCraft-/ under eCRAFT information. The eCRAFT e-mail address for report submission is:

Ecraft.nuwc.npt.fct@navy.mil. If you have problems uploading reports, please see the Frequently Asked Questions at the site address above.

(2) Submission and Acceptance/Rejection:
Contractor shall submit their reports on the same day and for the same timeframe Contractor submits an invoice in iRAPT. The amounts shall be the same. eCRAFT acceptance/rejection will be indicated by e-mail notification from eCRAFT.

Deliverables:
- CDRL A132, Contractor's Funds and Man-hour Expenditure Report

4.0 PROGRAM MANAGEMENT (Execute without TI)

Contractor shall establish a single management focal point to meet all the administrative, managerial, and financial requirements for this contract and subsequent TIs. Contractor shall be responsible for managing the Triton MTS, including customer interface, contract execution, financial management, and internal and external program reviews during the Period of Performance (PoP) of this contract.

Contractor shall notify the Contracting Officer's Representative (COR) whenever Contractor plans to change its capability or its capacity to support MTS. Contractor shall review TI drafts and provide cost estimates when requested by the COR.

Contractor shall submit a monthly Contractor's Progress, Status and Management Report (CPSM) that summarizes cost, schedule and technical performance. The CPSM shall document the monthly status of the program, all assigned tasks and include the progress made in all areas of products and support. This report shall inform the Government of existing or potential problem areas.

Detailed backup data in MS Excel format shall be submitted concurrently with each invoice cost voucher. Voucher data shall be organized by Contractor's Work Breakdown Structure (WBS) elements (i.e. Tasking and/or Technical Instructions).

Data shall include:
- Summary of actual costs,
- Current period costs by WBS,
- Current period hours by Network Activity (NWA),
- Inception to Date (ITD) costs by WBS,
- ITD hours by NWA,
- Labor hours by Bid Category,
- Other Direct Charges (ODC) including:
    - Travel details, and material charges.

For each Contact Line Item (CLIN) or SubCLIN (SLIN), the CPSM shall summarize funds availability in terms of current remaining balance and funds expiration. For each

WBS element or TI, the CPSM shall summarize costs for the reporting period and ITD costs.

Cost reporting shall include:
- Labor hours by labor category (i.e. PM01, EE01, etc.)
- Labor cost
- Material cost
- Other direct costs
- Total cost

For each reporting period, the CPSM shall summarize per each TI:
- Product deliveries
- Repair deliveries
- Data item deliveries
- Meetings
- Completed subtasks

For each TI, Contractor shall summarize technical performance as a brief description of work activities performed during the reporting period to include a discussion of any concerns/risks. Contractor shall coordinate submittal and Government acceptance of data item deliverables.
Deliverables:
- CDRL A001 – Contractor's Progress, Status and Management Report (CPSM)

4.1 **Program Planning (Execute without TI)**
Contractor’s designated Program Manager (PM) shall identify all work to be accomplished. Contractor’s PM shall establish and maintain a Work Breakdown Structure (WBS). Contractor's PM shall establish and maintain an Integrated Master Plan and execute the program in accordance with their proposed Work Breakdown Structure (WBS) using MIL-STD-881C as guidance. Contractor's PM shall regularly review the status and adequacy of the reliability activities and report the status at periodic program and technical reviews. The WBS shall be structured and detailed to the level required to enable accurate management of the program. Contractor shall develop and maintain Integrated Master Schedules (IMSs) as required to manage program progress in meeting measurable program events. Contractor's PM shall incorporate Earned Value Management IAW SAE EIA-748C for cost efforts, when required.
Deliverables:
- CDRL A040 – Integrated Master Plan
- CDRL A041 – Work Breakdown Structure (WBS).
- CDRL A042 – Integrated Program Management Report - Integrated Master Schedule
- CDRL A043 – Contract Performance Report

4.2 **Program Management Reviews (TI Required)**

Contractor shall have Program Management Reviews (PMRs) quarterly. The first PMR shall be held at a mutually agreed date between the Contractor and the Government. Contractor shall prepare and submit agendas, presentation materials, meeting minutes, and track action items generated during reviews.
Deliverables:
- CDRL A038 – Report, Record of Meeting/Minutes
- CDRL A039 – Presentation Material

4.3 **Technical Interchange Meetings (TI Required)**

Contractor shall conduct Technical Interchange Meetings (TIMs) as required. The TIM(s) shall take place at the Contractor facility unless an alternate location is agreed upon. Possible alternative locations include NSWC Crane and Naval Air Warfare Center Patuxent River, MD. Any more than one (1) TIM per fiscal year shall require mutual agreement between the Contractor and the Government.
Deliverables:
- CDRL A038 – Report, Record of Meeting/Minutes.
- CDRL A039 – Presentation Material.

4.4 **Program Protection and Security Management (Execute without TI)**

Contractor shall comply with the current Program Protection Plan (PPP) for the MQ-4C Triton Program. Contractor and its subcontractors shall comply with National Industrial Security Program Operating Manual (NISPOM) and DoDI 5200.01, Information Security Manual, dated 24 February 2012, as pertains to this contract. Contractor shall classify appropriately marked documents developed for this effort in accordance with the current Triton Program Security Classification Guide (SCG) and DoDI 5200.01, Information Security Manual, dated 24 February 2012. Contractor shall supplement their current security practices by requiring all Contractor personnel to complete annual Operations Security (OPSEC) training.

Classified and unclassified technical documentation generated under this contract shall have the following distribution statements applied:

DISTRIBUTION STATEMENT D: Distribution authorized to the Department of Defense and DoD Contractors only: for administrative purposes as of 9 Nov 2011. Other U.S. requests shall be referred to the Commander, NSWC Crane Division, Electro Optics Technical Division (Branch Code JXQL), Crane, IN 47522-5001

4.5 **Cyber Security Requirements (Execute without TI)**

Contractor shall ensure all Information Security users are appropriately trained in accordance with SECNAVINST 5239.20A, Department of the Navy Cyberspace Information Technology and Cybersecurity Workforce Management and Qualification, 10 February 2016, SECNAVINST 5239.3C, Department of the Navy Cybersecurity Policy, 02 May 2016, and DoD Instruction 8510.01, Risk Management Framework (RMF) for DoD Information Technology (IT), 12 March 2014, to fulfill cybersecurity responsibilities before allowing Contractors access to systems or networks.

Contractor shall meet appointment, qualification and investigation requirements regarding cyber information technology and cybersecurity functions and report Contractor personnel's cybersecurity qualification status per Cybersecurity Data Element Standard in the OPM "Guide to Data Standards", 9 July 2013. Unless expressly provided herein, all responsibility for training that is required for the Contractor to maintain a specific expertise, commercial certification, or Continuous Learning is the sole responsibility of the Contractor.

Contractor shall comply with all certification and training requirements of assigned Cyber IT/CSWF positions in accordance with DoDI 8140.01 Cyber Workforce Management, 11 August 2015 and SECNAV M-5239.2 Department of Navy Cybersecurity Workforce Management and Qualification Manual June 2016.

4.6 **Integrated Data Environment (IDE) (Execute without TI)**

To support effective communication and timely exchange of information, Contractor shall submit data in electronic format by posting it on a secure Contractor-managed IDE. This IDE shall be password-protected for controlled access. Only unclassified information shall be allowed in this forum. Classified data shall be exchanged only via the following media: SIPRNET, STU with fax capability, STU with laptop capability, and/or paper copy, CD, or DVD via registered mail. The IDE shall be a single centralized database for management of all data. Contractor, in developing information to be furnished to the Government, shall make the maximum use of existing data and provide maximum multiple use of technical information. Specific data management functions shall include schedule control for deliverables, maintenance of deliverables, approval of deliverable format, and distribution of data products. The system shall include facilities for storage of all data developed or utilized for this contract and shall provide equal unlimited access to all data by the Government. The IDE shall use Microsoft® Office or compatible products unless otherwise agreed to by the Government. The Government reserves the right to review all data associated with and developed for the Triton MTS via the IDE. The Government shall provide a List of Users for Access upon contract award.

4.7 **Government Property/Equipment Management (Execute without TI)**

Government Furnished Property (GFP) will be provided as necessary to support individual efforts on this contract. All GFP shall be managed in accordance with applicable Federal Acquisition Regulation (FAR) and Defense Federal Acquisition Regulation Supplement (DFARS) clauses incorporated into this contract. Contractor shall provide an Asset Report to describe the status and inventory data for all GFP accountable to the Contractor through this contract and associated TI's. The Asset Report will be used to review the condition, installation, and effectiveness of Government property in Contractor's possession.
Deliverable:
- CDRL A056 – Asset Report

5.0 ENGINEERING (TI Required)

Contractor shall provide response to telephone and email inquiries regarding Triton performance, hardware and/or software configuration, troubleshooting, and maintenance procedures for current period of performance.

5.1 Software Engineering (TI Required)

Contractor shall provide Triton MTS software engineering support to sustain software and firmware configuration items, (b)(4) and software tools used for programming and testing.

Contractor shall maintain a Software Change Request (SCR) list for each MTS software application under this contract. The prioritization of the SCRs shall be reviewed and mutually agreed upon by the Government and Contractor for incorporation into software future releases.

5.1.1 Software Engineering (TI Required)

Contractor shall provide software replication and distribution. Third-party software licenses for MTS specific software shall be provided as necessary. If Contractor cannot provide particular third-party software, then Contractor's proposal shall identify specific exceptions to this requirement.

Contractor shall notify the COR whenever changes occur that impact Government maintenance operations.

Contractor shall deliver test program set software updates concurrently with operational software version releases. For purposes of this requirement test program set shall be any software utilized to perform MTS maintenance procedures.

Contractor shall:

I. Recommend software enhancements and plan software version releases. Software version releases shall prioritize and incorporate fixes for Software Trouble Reports whenever practical.
II. Provide software and technology insertion roadmaps and shall consider standardization across all the MTS variants
III. Develop, test and release software version releases. Operational software shall be developed, tested and released IAW the latest Government approved Software Development Plan (SDP).
IV. Contractor shall provide preliminary Engineering Release Software versions for initial testing. Software version will roll on any change. Final Versions shall not be released prior to successful completion of Government testing.
V. Provide Functional Qualification Test (FQT) or delta FQT Software Test Reports as requested by the Government.
VI. Provide detailed Software Version Description (SVD) for each Software Release. Draft SVDs and draft System Release Configuration documents may be submitted

with Engineering Software Builds. Final SVD and System Release Configuration Documents shall be submitted for Final Software Releases.

VII. Contractor may be directed to provide test support for Systems Integration Lab (SIL), Aircraft Ground Test, and Flight Test check-out of the software release as required.

VIII. Contractor shall evaluate software compliance with Information Assurance (IA) requirements. IA requirements may include DoD Information Assurance and Accreditation Process (DIACAP) and Naval Support Activity (NSA) Information Assurance and Accreditation Process (NIACAP).

IX. Contractor shall support Government led independent validation/verification software testing performed in a system integration lab environment.

X. Contractor shall provide updates to any Test Equipment Software and Firmware requested by the Government including Factory Common Software, Factory Test Equipment Aircraft Simulations, Bench Test Utilities, and Autoloader IAW Computer Software Product End Items.

Software Maintenance Performance:

Item Description	Required
MTS Final Release Software Updates	100% Error Free on SCRs coded Priority 1 and 2, Delivery IAW TI
Test Equipment Software Updates (i.e., factory test, console, BE calibration, bench test)	Delivered 100% error free upon delivery of a system release or as requested via TI

Deliverables:
- CDRL A001 – Contractor's Progress, Status and Management Report (CPSM)
- CDRL A018 – Software Change Request Report.
- CDRL A019 – Software Development Plan
- CDRL A020 – Software Test Report.
- CDRL A021 – Software Version Description
- CDRL A022 – Computer Software Product End Item.
- CDRL A023 – Firmware Support Manual.
- CDRL A024 – Software Installation Manual
- CDRL A069 – Software Requirements Specification.
- CDRL A085 – Software Test Plan.
- CDRL A086 – Software Test Description
- CDRL A107 – Software/Firmware Compatibility Matrix
- CDRL A108 – Software Installation Plan.
- CDRL A118 – Engineering Change Proposal System Safety Report.
- CDRL A123 – System Release Configuration Document

5.2 **Engineering Data for Provisioning (TI Required)**

Contractor shall provide engineering data for provisioning and support Government led provisioning and cataloging efforts.

Contractor shall provide product drawings and other technical documents. To fulfill this requirement Contractor shall deliver portions of the MTS TDP that identify and describe provisioning items.

Contractor shall provide logistics product data for provisioning and cataloging. To fulfill this requirement Contractor shall deliver source data for provisioning and cataloging as defined by SAE GEIA-STD-0007.

Contractor shall provide initial provisioning lists. Initial provisioning lists shall include recommendations and source data for a Provisioning Parts List that delineates all candidate provisioning items.

Contractor shall recommend Source, Maintenance and Recoverability (SMR) codes. To fulfill this requirement Contractor shall deliver source data for Triton Maintenance Plan.

Deliverables:
- CDRL A055 – Technical and Logistics Studies and Analyses
- CDRL A067 – Production TDP
- CDRL A110 – Sparing Recommendation Analysis
- CDRL A111 – UID Data for Embedded Items
- CDRL A119 – Calibration and Measurement Requirements.
- CDRL A131 – Engineering Data for Provisioning (EDFP)
- CDRL B004 – Indentured Product List SAE GEIA-STD-0007
- CDRL B012 – MTS Interim Support Items List
- CDRL B014 – MTS Special Packaging Instructions (SPI)

5.3 **Engineering (TI Required)**

Contractor shall provide MTS specific engineering support for software releases, technical reports studies, analyses, systems integration, lab testing, flight testing, ground testing, and develop new hardware assets for Triton MTS. Additional efforts under this program may be required in the area of special tools, fixtures, tooling, cables, and other miscellaneous equipment or material to accomplish the specific support effort in accordance with TI.
Deliverable:
CDRL A055 Technical Report - Study/Services, Technical and Logistics Studies and Analysis

6.0 **LOGISTICS MANAGEMENT INFORMATION (LMI) PROGRAM (TI Required)**

Contractor shall develop and maintain a Logistics Management Information (LMI) program that conforms to SAE-GEIA-STD-0007 and N00164-17-G-JQ02 BOA SOW para 8.0.

The LMI program shall be the single, analytical effort that interfaces with the systems engineering process to identify logistic support resources. The LMI Program shall

develop and maintain the Supportability Analysis (SA)/LMI program requirements associated with MTS.

Contractor shall provide LMI analysis standard reports and other analysis from the LMI program.
Deliverables:
- CDRL A012 – Configuration Item (CI) Documentation Recommendation
- CDRL A048 – Testability Requirements Analysis Report
- CDRL A052 – Fault Hazard Analysis Report
- CDRL A053 – Material Safety Data Sheets
- CDRL A055 – Technical and Logistics Studies and Analyses
- CDRL A060 – Level of Repair Analysis (LORA) Report
- CDRL A093 – COMPASS Data
- CDRL A094 – SESAME Data
- CDRL A110 – Sparing Recommendation Analysis
- CDRL A119 – Calibration and Measurement Requirements.
- CDRL B002 – Total Ownership Cost and Repair Level Analysis Source Data
- CDRL B004 – Indentured Product List SAE GEIA-STD-0007
- CDRL B005 – MTS LMI Database SAE GEIA-STD-0007
- CDRL B006 – Operator and Organization Level
- CDRL B011 – MTS Support Equipment Recommendation Data (SERD)
- CDRL B012 – MTS Interim Support Items List
- CDRL B014 – MTS Special Packaging Instructions (SPI)

6.1 **Supportability Analysis (SA) (TI Required)**
Contractor shall provide logistics data, provide supportability analysis and support Government led supportability planning.

Contractor shall provide maintenance task analysis. Maintenance task analysis shall include considerations for preventive maintenance, fault detection, fault isolation, system alignments, system checkout testing, software reloading, safety precautions and support equipment utilization. Maintenance task analysis shall include mean time to repair estimates and supporting rationale. Maintenance task analysis shall include assemblies, subassemblies and replaceable parts.

Contractor shall provide level of repair analysis. To fulfill this requirement, Contractor shall provide source data for (b)(4) (b)(4) Level of repair analysis shall include assemblies, subassemblies and replaceable parts. Level of repair analysis shall consider all levels of maintenance.

Contractor shall provide logistics data and analysis for ground support equipment and shipping containers. For purposes of this requirement ground support equipment shall include tools, lifting handling gear, power and cooling gear and test measurement and diagnostics equipment utilized by organizational level maintenance.

Contractor shall provide product support cost information for affordability analysis.

Contractor shall provide logistics data and analysis for writing a Program Protection Plan (PPP). Contractor shall assist Government to prepare PPP documentation per DoDI 5000.02 acquisition program requirements.

Contractor shall provide logistics data and analysis for writing a Life-Cycle Sustainment Plan (LCSP). Contractor shall assist Government to prepare LCSP documentation per DoDI 5000.02 acquisition program requirements.

Deliverables:
- CDRL A012 – Configuration Item (CI) Documentation Recommendation
- CDRL A044 – Reliability Analysis Report – (MTBF)
- CDRL A045 – Reliability Analysis Report – (MTBM)
- CDRL A046 – Reliability-Centered Maintenance Analysis Data
- CDRL A047 – Reliability and Maintainability Predictions Report
- CDRL A048 – Testability Requirements Analysis Report
- CDRL A049 – Built in Test (BIT) Catalog Matrix
- CDRL A050 – Failure Modes, Effects, and Criticality Analysis Report - FMECA Report
- CDRL A051 – System Safety Plan
- CDRL A052 – Fault Hazard Analysis Report
- CDRL A053 – Material Safety Data Sheets
- CDRL A055 – Technical and Logistics Studies and Analyses Services
- CDRL A060 – Level of Repair Analysis (LORA) Report
- CDRL A093 – COMPASS Data
- CDRL A110 – Sparing Recommendation Analysis
- CDRL B002 – Total Ownership Cost and Repair Level Analysis Source Data
- CDRL B011 – MTS Support Equipment Recommendation Data (SERD)

6.1.1 **Supportability Analysis (SA) and Logistics Management Information (LMI) Data Reviews (TI Required)**

SA/LMI data reviews shall be conducted at Contractor's facility to allow the Government to evaluate the adequacy, accuracy and timeliness of data contained in the LMI data. SA/LMI data reviews shall take place at Contractor’s facilities unless otherwise agreed upon at least once per year and could be scheduled with other reviews to allow the Government to evaluate the adequacy, accuracy and timeliness of data contained in the LMI data.
Access to SA/LMI data, SA/LMI source data, Indentured Product Codes (IPC) Work Packages, drawings and engineering support data (ie. failure mode and damage mode analysis data, reliability predictions reports, testability analysis data, test requirements documents, reliability centered maintenance analysis data, maintainability analysis data and safety analysis), used to develop SA/LMI data, shall be available at the SA/LMI reviews. This LMI source data shall be provided in association with IPCs reflected in

LMI deliveries to facilitate a more efficient LMI data review and Government and Contractor LMI review meeting.

6.1.2 **Design Interface (TI Required)**
A methodology to ensure that supportability related design factors are imposed on the evolving design shall be implemented and procedures shall be in place with the engineering functions to complete design interface for supportability. Procedures for design interface shall be discussed at the LMI Guidance Conference.

6.1.3 **Supportability and Supportability Related Design Factors (TI Required)**
Requirements for system supportability shall be given maximum consideration during system design and any modifications/updates. Any proprietary hardware/software items or processes proposed for use in the design shall be identified via the Indentured Product List (IPL), LMI database, and monthly progress reports. Support system performance shall be measured concurrently with the accomplishment of LMI program requirements involving supportability, test, evaluation, and verification requirements. The tasks applicable to this area identify supportability constraints, thresholds, and targets for technology refreshment, and provide supportability inputs for trade-off analyses.

6.1.4 **MTS Organizational, Intermediate and Depot Level LMI (TI Required)**
SA/LMI shall be performed by the Contractor for all levels of maintenance including and down to the bit and piece part level of indenture for organic repairables and including identification of commercial repair tasks for Contractor repairables auditable to the Mean Time Between Maintenance Action (MTBMA) and Reliability, Maintainability and Testability (RMT) program figures of merit. (b)(4) (b)(4) (b)(4) These items shall be documented in the LMI database with a generic Fault Location, Repair and Verify Repair tasks without supporting testability analysis and associated Support Equipment Requirement Documentation (SERD) information. Although all other supporting LMI data product definitions shall be accomplished for these items and their indentured parts, Emphasis shall be placed on: (1) the Operator and Organizational level LMI data, (2) built in test, fault location and verification of repair at all maintenance levels, (3) reliability data items Mean Time Between Failure (MTBF) and Mean Time Between Maintenance Action (MTBMA) or Mean Time Between Unscheduled Removal (MTBUR) to provide complete deliveries of LMI database products as required by this SOW and the CDRLs.

6.1.5 **Functional Analysis (TI Required)**
All operations, maintenance and support functions shall be documented in the SA/LMI. This analysis shall be accomplished at a level equal to the SA/LMI guidance. The Functional Analysis shall be auditable to the Failure/Damage Mode, Reliability/Maintainability and Testability including system calibration requirements,

Safety and Reliability Centered Maintenance Analyses (per paragraph 6.1), as applicable. All scheduled maintenance task requirements shall be directly auditable to the Reliability Centered Maintenance (RCM) and Failure/Damage Mode analyses. If system engineering data is not available to support development of the LMI data requested, the necessary data to accomplish the task shall be produced. The results of these analyses shall be documented in the LMI databases for all authorized design configurations.

6.1.6 **Task Analysis (TI Required)**

A detailed analysis of all operations and maintenance tasks, to the depth necessary for identification of all procedural steps required for task accomplishment, shall be documented in the SA/LMI. This analysis shall be accomplished at a level commensurate with SA/LMI guidelines. Associated with this effort shall be the identification of the resources needed to support task accomplishment. Procedural steps for all tasks, including maintenance task times, and support resources shall be documented in the LMI data resulting from this analysis. Sequential task analysis and support resources validation shall be accomplished as part of the review process where necessary, in conjunction with in-house testing and manufacture, and through the test and evaluation program.

6.1.7 **Screening for Environmental Effects Data (TI Required)**

Those operational and maintenance tasks and processes that require the use of hazardous material, generate hazardous waste or other environmental pollutants shall be documented and maintained by the Contractor in the SA. Mitigation measures and required treatment, storage and disposal of hazardous materials shall be listed in the SA as part of the Task Analysis documentation and provisioning effort. The task analysis shall include any tasks and resources required to store, handle or dispose of hazardous materials during operations and maintenance. Hazardous Material Safety Data Sheets (HMSDS) shall be made available as supporting documentation in the LMI work packages and as needed to support database deliveries.

6.1.8 **Logistics Management Information (LMI) (TI Required)**

Details regarding the efforts associated with each data product may be discussed during the LMI Guidance Conference. The Government furnished LMI data products will be discussed at the LMI Guidance Conference. Government approval is required for any modifications, changes, additions or deletions required to LMI data products or their definitions.

6.1.9 **Logistics Management Information (LMI) Database (TI Required)**

Contractor shall establish and maintain an automated LMI database that reflects all authorized configurations up to and including the latest configuration in a software storage/retrieval system format. The LMI database shall be used for storage, analysis, and retrieval of all logistics support and related information from which all logistics support resources are identified. The software storage/retrieval system shall meet the

requirements of SAE-GEIA-STD-0007 and be compatible with the Government's LMI database. Recurring deliveries of data required to populate the LMI database, or selected data files covering specific IPCs, shall be required. Contractor shall provide MTS LMI Database information to the Government.

6.1.10 **Supportability Analysis (SA)/Logistics Management (LMI) Data Not resident on LMI Database (TI Required)**

SA data and engineering source data not captured in the LMI data products shall be included by the Contractor in MTS SA Work Packages for use during reviews and shall be provided as supporting documentation to LMI database submittals. The engineering drawings associated with the SA/LMI shall be provided with LMI Summaries and databases delivered IAW MTS Operator and Organizational Level TDP Deliverables:
- CDRL B006 – MTS Operator and Organizational Level TDP

6.1.11 **MTS Analysis Summaries (TI Required)**

MTS SA Summaries shall be issued IAW with issued TI. Government approval is required for any modifications/changes or additions/deletions to specified LMI data products or their definitions.

6.1.12 **MTS Repair Level Analysis (RLA) (TI Required)**

Contractor shall develop and document RLA input data elements for use in RLA modeling. Documentation shall include the source, ground rules and assumptions used in the development of RLA input data elements. This RLA source data shall be provided in conjunction with the Total Ownership Cost (TOC/RLA) source data noted in Total Ownership Cost and Repair Level Analysis Source Data.

6.2 **Indentured Product Codes (IPC) (TI Required)**

A Government approved coding system shall be used to provide traceability for MTS, and its systems, subsystems, assemblies, subassemblies, components, parts and any required SE existing and new, if applicable. Any identified Support Equipment (SE) shall be assigned a unique IPC, separate from the IPCs representing components of the MTS. Compatibility of subcontractor and vendor IPCs with the overall IPC system shall be maintained. IPC assignments shall consider the addition of components due to a design change. The re-sequencing of IPCs after initial assignment shall be approved by the Government. A similar numbering system as is currently in use shall be maintained.

6.3 **MTS Indentured Product List (IPL) (TI Required)**

The MTS LMI Indentured Product Lists (IPL) shall be developed and maintained in Top-Down Breakdown sequence, IAW the system drawings. IPL data, based on engineering and logistics data shall be developed and maintained within the LMI database for MTS. The MTS IPL shall be provided as a direct output report of the database. The IPL shall identify all repairable and Maintenance Significant Consumables (MSCs). The list shall include the assigned IPC/Alternate IPC (AIPC),

item name/equipment nomenclature (when available), Commercial and Government Entity (CAGE) code, and manufacturer's part number, quantity per assembly, and, if already assigned, Source Maintenance and Recoverability (SMR) code, Contractor Technical Information Code (CTIC) and National Stock Number (NSN) for each item listed. Any item that is Commercial-Off-The-Shelf (COTS) or has proprietary source data or proprietary drawings shall be identified as such on the IPL using the CTIC data product for that particular IPC. Additional Reference Numbers (ARN) and ARN Cage Codes shall be provided in the IPL where applicable. The IPL shall be directly traceable to all authorized configurations up to and including the latest hardware configuration drawings/baselines.
Deliverables:
- B004 - MTS Indentured Product Lists

7.0 **CONFIGURATION MANAGEMENT (TI Required)**

Contractor shall comply with a Configuration Management process in accordance with ANSI/EIA-649-B, Configuration Management Standard, SAE EIA-649-1 and PMA-262 Triton Configuration Management Plan (CMP).Use MIL-HDBK-61A and NAVAIRINST 4130.1D as additional guidance. Contractor shall provide a Contractor Configuration Management Plan. This plan shall address hardware, computer firmware, databases, data and computer software.

The CM process shall ensure that each Configuration Item (CI) conforms to the released engineering baseline. The CM process shall provide for CM planning and management, configuration identification, configuration change management, configuration status accounting, Functional Configuration Audit (FCA), Physical Configuration Audit (PCA) Plan and configuration data of all hardware, firmware, software and documentation, including Commercial-Off-The-Shelf (COTS) items. For CM purposes, the term "software" includes both software and firmware. Contractor shall ensure all configuration changes are incorporated into the existing configuration management database to ensure the system’s current configuration is documented IAW as Built Data.

Deliverables:
- CDRL A009 – Supplier’s Configuration Management Plan
- CDRL A011 – Functional and Physical Configuration Audit Plan
- CDRL A012 – Configuration Item (CI) Documentation Recommendation
- CDRL A013 – Configuration Status Accounting
- CDRL A068 – Configuration Audit Summary Report and Certification

7.1 **Configuration Status Accounting (TI Required)**

Contractor shall maintain an Integrated Data Environment (IDE) whereby the Government can access Configuration Status Accounting (CSA) information. CSA information shall include current and historical information about MTS configuration items, functional baseline documentation and product baseline documentation. CSA

shall be capable of tracking configuration items changed by maintenance actions (as-maintained configuration).

Contractor shall provide a MTS configuration listing. The Indentured Data List (IDL) also known as the Raytheon Product Generation Report is acceptable for purposes of this requirement. Contractor shall recommend configuration items to be tracked.
Deliverables:
- CDRL A025, Configuration Items Data Report
- CDRL A027, Indentured Data List

7.2 **Configuration Identification (TI Required)**

The configuration of MTS products (i.e. serial number and revision letter for each CI in that product) shall be captured during the production process. Contractor shall provide this "As Built" data for each product within (b)(4) and IAW with the CDRL Class I (ECP), as defined by MIL-HDBK-61A and SAE EIA-649-B, changes require Government written approval before being utilized on the MTS.
Contractor shall implement CI in the establishment and traceability of technical documentation for Hardware and Software Configuration Items (HWCIs/SWCIs) to the installation level tier and changes to the MTS established product baseline.
Baseline artifacts shall consist of specifications, drawings, Engineering Bills of Materiel, Order Bills of Materiel, First Article Inspection (FAI), vendor data, associated lists, test requirements, software design documents and associated software documentation.
Contractor shall ensure that all documentation is traceable back to an approved requirements management document.
Systems/CIs that have been identified as under Government control, Contractor shall provide Form, Fit, Function and Interface (F3I) documentation necessary for configuration status accounting IAW As Built Data.
Deliverable
- CDRL A013 – Configuration Status Accounting

7.3 **Configuration Control (TI Required)**

Contractor shall implement and maintain configuration control IAW the SAE EIA-649-1, SAE EIA-649-B. Contractor's configuration control process and procedures shall maintain the integrity and traceability of the products functional, allocated and product baseline. Configuration changes shall be identified to the affected serial number or, if not part of an assembly, to the affected equipment CI/serial number and Item Unique Identifiers (IUID). All Class I ECPs, Major/Critical RFV and Specification Change Notice (SCN) changes to the established baseline shall be submitted to the Government for approval. The method of change notification shall be ECP Class I Major, Class II ECPs Minor, Request for Variance, and Specification Change Notice (SCN).

Contractor shall be responsible for maintaining the currency and accuracy of the established requirements to ensure F3I of the MTS. Contractor shall maintain established CM control processes that align to the Program Office requirements.

Contractor shall prepare the following as required IAW the change management process.

7.3.1 **Specification Change Notice SCN: (TI Required)**

Contractor shall produce and deliver proposed SCNs in conjunction with ECP packages for changes to the MTS Specification as approved by the Government IAW the Specification Change Notice.
Deliverables
- CDRL A129, Specification Change Notice

7.3.2 **Configuration Control Reviews (TI Required)**

7.3.2.1 **Configuration Management Integrated Product Team (CMIPT) (TI Required)**

Contractor shall conduct and participate in a CMIPT Meeting. The main purpose of the CMIPT is to review Class I (Major ECPs), Class II Change Notices (CNs), Request For Variances RFVs, and FCA/PCA drawing action Items, test equipment drawing changes, and other CM actions as required. Contractor shall furnish advance CMIPT presentation prior to CMIPT for Government information. The Government will review the CNs for impacts of the classification level at the CMIPT and provide comments. Contractor shall host CMIPTs at Contractor facilities and provide for participation via teleconference.

7.3.2.2 **Configuration Control Board (CCB) Meeting (TI Required)**

The Government will maintain configuration control of the system hardware, firmware, and software as the current document control authority (CDCA). Contractor shall coordinate, conduct, and participate in a bi-weekly Triton Configuration Control Board (TCCB) meetings with the Government.

Contractor shall brief all upcoming Engineering/Software Change Requests, status of Change Notices (ECN), TCCB notes, and assist the Government with assessing ECP effectivity. Contractor shall provide via presentation all change requests changes that impact the Triton MTS configuration to determine class concurrence. Upon the receipt of a CR (either Government or Contractor generated), Contractor shall estimate and describe the necessary level of effort to accomplish the change and the effect on the system. The Government will use this data to determine the appropriate priority and grouping of changes for future hardware changes and software releases. Contractor shall maintain a hardware/software change requests (CR) database/list under this contract. The prioritization of the CRs shall be reviewed and mutually agreed upon in writing by the Government and Contractor for incorporation. Contractor shall provide a listing of the CRs and approved CNs and corresponding information as part of the monthly progress report. Draft presentation materials shall be submitted to the Government no later than three (3) days prior to the TCCB. Any CR deemed urgent shall be addresses on a case by case basis.
Deliverables:

- CDRL A001 - Contractor's Progress, Status and Management Report (CPSM)
- CDRL A039 - Presentation Material.

7.3.3 **Engineering Change Proposals (ECP) (TI Required)**
Changes to any document under Current Document Change Authority (CDCA) control shall be provided to the Government for information for Class II Minor and approval for ECP Class I Major. NSWC Crane will act as the Class II concurrence and will respond within 5 working days. Class I ECPs shall be delivered and the Government will respond within 24 hours for Emergency Class I ECPs, 15 days for Urgent Class I ECPs and 90 days for Routine Class I ECPs. Contractor shall deliver Engineering Change Proposal (ECP), Class I Major, and Engineering Change Proposal (ECP), Class II Minor.
Deliverables:
- CDRL A014, Class I Major.
- CDRL A015, Class II Minor

7.3.3.1 **Class I ECP (TI Required)**
Contractor shall submit Engineering Change Proposals (ECPs) IAW the terms and conditions identified in the FAR and DFARS clauses incorporated in this contract. Contractor shall submit Class I ECPs IAW in BOA parapraph 5.0.
Deliverable:
- CDRL A014 - Engineering Change Proposal-Class I, Major.

7.3.3.2 **Class II ECP (TI Required)**
ECPs not classified as Class I are Class II. Contractor shall notify the Government of all Class II changes for Class concurrence. Once concurrence has been determined, Class II changes may be processed by the Contractor upon approval by Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR). If the DCMA QAR does not agree with the classification of a specific change, they may direct the Contractor, with Government Program Office concurrence, to elevate it to Class I. Final classification decision shall be made by the Government. Contractor shall notify the Government of all Class II changes IAW with paragraph 7.3.2.2..
Deliverable:
- CDRL A001 – Contractor's Progress, Status and Management Report (CPSM).
- CDRL A015 – Engineering Change Proposal-Class II, Minor.

7.3.4 **Request for Variance (TI Required)**
All variances (a.k.a. Nonconforming Materiel Reports) shall be classified as Minor or Major IAW SAE EIA-649-B, ISO 9001 and per MIL-HDBK-61A. All variances to safety critical components shall be considered Major variances. Any variance or exception to any Government approved Performance Specification, Interface Control Document or Test Procedure (ex. ATP, ESS) shall be considered a Major variance. Raytheon shall coordinate MRB actions with local DCMA in accordance with DCMA Instruction 1207. Contractor shall maintain a copy of each Minor variance report, list the report on a Data Accession List if applicable, and make the reports available to the Government upon

request. All variances that are classified as Major shall be submitted to the Government for approval prior to incorporation.
Deliverable:
- CDRL A017 - Request for Variance.
- CDRL A130 - Data Accession List

7.4 **Technical Data Package (TDP) (TI Required)**

Contractor shall update, maintain, and deliver via Raytheon CPDM a Technical Data Package (TDP), in support of the Government's operation, maintenance, integration, and training requirements, for all contracted configurations of Triton MTS.

The TDP includes Triton MTS specific components, common product components (i.e., components utilized on other Multi-Spectral Targeting System (MTS) variants in addition to Triton MTS), and general use components (i.e., bolts, screws, etc) that are not Military Specification/Standard/Off the Shelf hardware. The TDP shall reflect the Triton MTS at its current level of design maturity; provide the engineering data for the logistic support products and Government maintenance, repair, and engineering analyses. The TDP submittals shall encompass all contracted configurations and shall be submitted to the Government.
Deliverable:
- CDRL A010 - Technical Data Package.

8.0 **INTEGRATION (TI Required)**

8.1 **Technology Insertion (TI Required)**

Contractor shall integrate new technologies and software/firmware into existing system architectures. Contractor shall apply a systems engineering approach to ensure that mission objectives and system criteria requirements are fulfilled. Emphasis shall be on the demonstration of clear and definable improvements in the performance, logistics supportability, reliability, and maintainability of the item. All efforts shall employ the latest technology in consonance with economic considerations. Changes determined to be class I shall require a formal ECP to be approved by the Government. The ECP shall identify the impact to the organic depot infrastructure and all support equipment.
Deliverable:
- CDRL A014 – Engineering Change Proposal-Class I, Major.

8.2 **Platform Integration (TI Required)**

Contractor shall support integration of the payload onto platform(s) designated by the Government. Contractor shall establish and maintain a systematic, documented, comprehensive, and verifiable system integration process throughout the project. This process shall ensure that interfaces and interaction between the payload and the platform are engineered and integrated to provide seamless integration. Contractor shall provide technical and engineering support and all additional support efforts required to assist in the integration into the designated platform. The Contactor shall propose hardware/software changes necessary to facilitate platform's integration. Contractor

shall implement hardware/software changes and provide required data to the Government to obtain Air Worthiness certifications. ICDs shall be maintained by Contractor and delivered to the Government for review and approval, as required by individual TIs. The Government shall be the Current Document Change Authority (CDCA) for the ICD. Changes to any document under CDCA control shall be classified as Class I and required Government approval of an ECP.
Deliverables:
- CDRL A003 - Interface Control Document
- CDRL A014 - Engineering Change Proposal-Class I, Major.

9.0 **TEST AND EVALUATION (TI Required)**

Contractor shall develop/update test plans, test procedures, test matrix, and test reports for Government review and approval. Contractor shall conduct testing and/or support Government testing at Contractor's facility or designated Government test site. Specific requirements shall be directed by TI.
Deliverables:
- CDRL A030 - Test Procedure Verification
- CDRL A031 - Verification Test Report
- CDRL A032 - Similarity Analysis Test Report
- CDRL A052 - Fault Hazard Analysis Report
- CDRL A058 - Technical Support (Field) Report
- CDRL A059 - Test Plan Qualification/Environmental
- CDRL A088 - Electromagnetic Interface (EMI) Report
- CDRL A102 - EMI Test Procedures
- CDRL A103 - EMI Test Plan

9.1 **Qualification Testing (TI Required)**

Contractor shall conduct qualification testing to verify the manufacturing process. Qualification testing shall be conducted IAW the Airworthiness Qualification Plan (AQP) for the MQ-4C Triton UAS. Specific requirements shall be directed IAW individual TI.
Deliverables:
- CDRL A059, Test Plan Qualification/Environmental
- CDRL A105, Scientific and Technical Reports - Airworthiness Release Data Package.

9.2 **Test and Support Equipment Enhancements (TI Required)**

Contractor shall design, build and upgrade support equipment (SE) that is used with the MTS. Contractor shall design and build special tools, interconnect cables and fixtures.

Contractor shall evaluate the condition of Government owned support equipment. This evaluation shall report deficiencies to meet performance standards and shall recommend corrective actions.

Contractor shall evaluate the configuration of Government owned support equipment. This evaluation shall report known supportability issues regarding availability of replacement parts. This evaluation shall report incompatibilities of Government support

equipment or test program sets to perform Contractor's factory repair procedures and factory test procedures.

Contractor shall deliver test program set software updates. For purposes of this requirement test program set shall be any software utilized to perform MTS maintenance procedures.

Contractor shall design enhancements for existing support equipment.

Contractor shall provide retrofit kits. These retrofit kits shall include all necessary hardware, software and documentation to enable Government representatives to upgrade its support equipment.

Contractor shall install and checkout support equipment upgrades. These installations shall be performed on site at Government's facilities.

Contractor shall provide updated engineering standards.

Contractor shall make travel arrangements and provide support at installation sites within the continental United States.

Deliverables
- CDRL A002 – Performance Specification Documents
- CDRL A003 – Interface Control Document
- CDRL A021 – Software Version Description
- CDRL A023 – Firmware Support Manual
- CDRL A024 – Software Installation Manual
- CDRL A033 – Commercial Manuals
- CDRL A034 – Commercial Drawings
- CDRL A036 – Developmental Drawings
- CDRL A037 – Special Tooling Drawings

10.0 **RELIABILITY AND MAINTAINABILITY IMPROVEMENT (TI Required)**

Contractor shall provide a reliability improvement program tailored to address MTS reliability performance. For purposes of this requirement reliability performance shall include considerations of materiel reliability, materiel availability, maintainability and ownership cost. Contractor shall compare reliability performance of similar products within the MTS Program Family of Systems. Contractor shall flow down requirements for reliability performance to its subcontractors to fulfill the overall intent of this requirement. Contractor shall use NAVAIR Manual 00-25-403 and MIL-STD-785B as guidance.
Contractor shall provide a Failure Reporting and Corrective Action System (FRACAS). Contractor shall support a FRACAS program. Support shall include providing failure data, operating hours and maintenance action reports. Support shall include providing root cause analysis to determine the cause of failures. Support shall include reliability

growth trend analysis. Support shall include recommending solutions to limit the recurrence of failures.
Contractor shall provide reliability performance reports and briefings. Briefings shall include presenting and discussing reliability performance at biannual Failure Review Board meetings and/or PMRs or TIMs,
Contractor shall provide Failure Modes, Effects and Criticality Analysis (FMECA). FMECA shall provide a basis for design trades whenever reliability is impacted.
Contractor shall provide reliability predictions. Reliability predictions shall include statistical modeling methods as appropriate. Reliability predictions shall include consideration of the MTS installed environment as appropriate.
Contractor shall provide reliability demonstration testing and reliability growth testing.
Deliverable:
- CDRL A007 - Failure Analysis and Corrective Action Report.
- CDRL A008 - Failure Summary and Analysis Report
- CDRL A044 - Reliability Analysis Report – MTBF.
- CDRL A045 - Reliability Analysis Report - MTBMA.
- CDRL A046 - Reliability-Centered Maintenance Analysis Data
- CDRL A050 - Failure Modes, Effects, and Criticality Analysis Report - FMECA Report.

11.0 OBSOLESCENCE/DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES (DMSMS) (TI Required)

Contractor shall be responsible for obsolescence/DMSMS program occurring on the Triton MTS. Contractor shall use SD-22 as guidance and compare obsolescence of similar products within the MTS Program Family of Systems. Contractor shall flow down requirements for reliability performance to its sub-Contractors to fulfill the overall intent of this requirement.

Contractor shall provide obsolescence forecasting. Obsolescence forecasting shall proactively investigate diminishing manufacturing sources and report any obsolescence risks. An obsolescence risk shall be reported whenever a MTS component will be unavailable from the original equipment manufacturer at a future date of 12 months.

Contractor shall recommend alternate courses of action to mitigate obsolescence risks. Consideration shall be given to new sources of supply, life time buys, parts substitutions and other courses of action.

Contractor shall provide obsolescence reports and briefings. Contractor shall participate in a Triton MTS Obsolescence Working Group (OWG). OWG participation shall include:
a) Contractor shall conduct, support and participate in a monthly teleconference as required with the Program Office. TIMS, PMRs, or other scheduled meeting may take the place of the regularly scheduled meeting if mutually agreed to by the Government.
b) Contractor shall be prepared to discuss all current CDRL information related to the EO/IR Obsolescence/DMS effort.

c) Contractor shall work action items as a result of OWG meetings to a mutually agreed closure date.

Contractor shall provide Engineering Change Proposals (ECP) to resolve obsolescence issues. Contractor shall submit an indentured DMSMS Bill of Material (BoM) that includes system breakdown to the piece part level for electronic parts with valid commercial vendor part numbers, and unit prices. The submittal shall also include a list of bridge and/or life of type buys performed in support of this contract. The BOM submittal shall include any updates/changes to the baseline.
Deliverables:
- CDRL A038 - Report, Record of Meeting/Minutes
- CDRL A039 - Presentation Material.
- CDRL A120 - Bill of Materials for Logistics and Supply Chain Risk Management.
- CDRL A121 - DMSMS Business Case Analysis
- CDRL A122 - Source Data for Forecasting Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management

12.0 **QUALITY REQUIREMENTS (Execute without TI)**

Contractor shall establish, maintain, and operate a quality system program acceptable to the Government IAW ISO 9001, the terms and conditions of the contract, and FAR Part 46. The quality system procedures, planning and all other documentation and data that comprise the quality system shall be made available to the Government upon request. Existing quality documents that meet the requirements of this contract shall continue to be used. The Government may perform any necessary inspections, verifications and evaluations to ascertain conformance to requirements and the adequacy of the implementing procedures. Contractor shall participate in the Product Quality Deficiency Reporting Program (PQDRP) IAW SECNAV 4855.5A for Acceptance Testing (AT).

IAW ISO 9001, Contractor shall maintain quality records to demonstrate conformance to specified requirements and effective operation of the quality system. Contractor shall make available to the Government, if requested, the end item WRA/LRU work package for each unit sold under this JO. An end item work package includes assembly work orders, test logs, AT data sheets for vendor items (if applicable) and test data sheets associated with the hardware.

The delivered products shall be fabricated and assembled using Contractor's best practices and processes. Each MTS system and WRA/LRU shall meet the requirements of the applicable Performance Specification and Interface Control Document (ICD) and be updated in each individual Job Order. Contractor shall maintain the Performance Specification Documents and Interface Control Document to support each configuration as current and submit updated documents for Government approval as required by changes in the program. Contractor shall maintain the Environmental Stress Screening (ESS) and Acceptance Test Procedure (ATP) Documents to support each configuration as current and submit updated documents for

Government approval as required by changes in the program and updated in individual Job Orders. Contractor shall complete the Environmental Stress Screening (ESS) Report. Cognizant Government representatives may witness all testing.
Deliverables:
- CDRL A002 - Performance Specification Documents
- CDRL A003 - Interface Control Document (ICD)
- CDRL A004 - Environmental Stress Screening (ESS) Report
- CDRL A005 - Test Procedure
- CDRL A006 - Quality Assurance Provisions
- CDRL A013 - Configuration Status Accounting (CSA) Information
- CDRL A031 - Technical Report-Study/Services, Verification Test Report

13.0 **FIELD SERVICE REPRESENTATIVES (TI Required)**

Contractor shall provide Field Service Representatives (FSRs) with technical knowledge of the Triton MTS weapon system to provide system integration, testing, training, operation, and maintenance support of the system at designated Continental United States/Outside Continental United States (CONUS/OCONUS) sites. Specific coverage and reporting requirement shall be delineated in the individual TI.

14.0 **REACH BACK SUPPORT (TI Required)**

Contractor shall provide technical and reach back support for TRITON MTS at CONUS/OCONUS locations. Contractor shall provide, but is not limited to, operations, maintenance, troubleshooting, and hardware/software support. Specific coverage and reporting requirement shall be delineated in the individual TI.

15.0 **DEPOT LEVEL SUPPORT (TI Required)**

Contractor shall support the Government requirement to establish an organic depot facility capable of maintaining; repairing; and overhauling the Triton MTS, components, and software/firmware as required by individual TIs.

15.1 **Depot Maintenance Activation Technical Support (TI Required)**

Contractor shall provide technical support to establish MTS repair and overhaul capabilities at Government depot facilities. Scope of this requirement includes MTS depot level repairable assemblies and subassemblies.
Contractor shall evaluate the capability and capacity of Government depot maintenance operations. Contractor shall compare current state repair capability with future state capability objectives, identify gaps and recommend solutions. Contractor shall compare current state repair capacity with future state capacity objectives, quantify workflow limitations and recommend solutions. Capability and capacity considerations shall include facilities, floor space, support equipment, test program sets, calibration out-of-service time, manpower, workflow processes, failure rates and repair cycle times. Contactor shall evaluate compatibility of Government depot to perform Contractor's factory procedures. This evaluation shall report incompatibilities of Government support

equipment or test program sets to perform Contractor's factory repair procedures and factory test procedures.
Contractor shall evaluate repair workflow efficiency of Government depot maintenance operations. This evaluation shall recommend efficiency improvements and provide rationale.
Contractor shall evaluate supportability of Government depot support equipment. Supportability considerations shall include test bench alignment procedures, test bench repair procedures, test bench spare parts, test program set recovery procedures, calibration program and equipment service life. This evaluation shall recommend supportability improvements and provide rationale.
Contractor shall provide depot level technical manual source data. This source data shall include equipment descriptions, equipment theory of operation, functional block diagrams, fault detection instructions, fault isolation instructions, assembly instructions, alignment procedures, acceptance test procedures, wiring interconnect schematics, repair parts and special tools lists, mandatory replacement parts and demilitarization and disposal instructions. Contractor shall coordinate periodic in-process reviews to receive comments from Government about content and format.
Contractor shall provide on-site support to validate Government depot repair capability. This validation shall identify deficiencies to produce RFI items and recommend remedies. This validation shall identify deficiencies in process control and recommend remedies.
Contractor shall make travel arrangements and provide support at Government depots. Specific coverage and reporting requirement shall be delineated in the individual TI.
Deliverables:
- CDRL A002 - Performance Specification Documents
- CDRL A003 - Interface Control Document (ICD)
- CDRL A004 - Environmental Stress Screening Report
- CDRL A005 - Acceptance Test Procedures (ATPS)
- CDRL A022 - Computer Software Product End Items
- CDRL A023 - Firmware Support Manual
- CDRL A024 - Commercial Off-The-Shelf manuals and Associated Supplemental Data
- CDRL A028 - Technical Report-Study/Services Assembly Instructions
- CDRL A029 - Test Procedure; Manufacturing, Alignment and Unit Test Procedure
- CDRL A038 - Meeting Minutes
- CDRL A039 - Presentation Materials
- CDRL A049 - Maintainability and Built In Test (BIT) Demonstration Procedure
- CDRL A055 - Technical and Logistics Studies and Analyses
- CDRL A065 - Depot Maintenance Study
- CDRL A107 - Software/Firmware Compatibility Matrix
- CDRL B015 - Equipment Maintenance Manual; MTS Instruction Technical Manuals

15.2 **Depot Maintenance Technical Support (TI Required)**
Contractor shall provide engineering technical services to support Government led sustainment maintenance operations.

Contractor shall provide MTS product data and expert advice to assist Government personnel with MTS repairs. Contractor's response shall be an email correspondence. Assistance shall include responding to telephone and email inquiries about MTS equipment configuration, function, interfaces, operation, maintenance, repair parts, overhaul or upgrade. Assistance shall include providing MTS equipment product data. Contractor shall meet or exceed the following timeline:

- Up to three (3) work days from Inquiry Date to Initial Response
- Up to ten (10) work days from Inquiry Date to Complete Response

Contractor shall provide troubleshooting assistance at Government depot facilities. Contractor shall dispatch a MTS subject matter expert within seven (7) business days of receiving a written or email request from the COR. The duration of each trip is anticipated to be one (1) day on-site plus travel time. Specific coverage and reporting requirement shall be delineated in the individual TI.

Contractor shall provide fact finding and analysis to resolve unique maintenance problems. Contractor's response shall be a Technical and Logistics Studies and Analyses. The Technical and Logistics Studies and Analyses shall include a dated record of the Government inquiry and a complete response. Contractor shall meet or exceed the following timeline:

- 30 calendar days from Inquiry Date to Initial Response (advance-copy report)
- 45 calendar days from Inquiry Date to Technical Report Study Submittal

Contractor shall make travel arrangements and provide support at Government depot facilities. Specific coverage and reporting requirement shall be delineated in individual TI.

If frequency of on-site support justifies, then Contractor shall submit requests to the Government to obtain Common Access Card (CAC) badges for its employees.

Deliverables:

- CDRL A002 - Performance Specification Documents
- CDRL A003 - Interface Control Document (ICD)
- CDRL A004 - Environmental Stress Screening Report
- CDRL A005 - Acceptance Test Procedures
- CDRL A010 - Technical Data Package
- CDRL A022 - Computer Software Product End Items
- CDRL A023 - Firmware Support Manual
- CDRL A024 - Software Installation Manual
- CDRL A027 - Indentured Product List
- CDRL A028 - Assembly Instructions
- CDRL A029 - Mfg, Align, and Unit Test Procedure
- CDRL A049 - Maintainability and Built In Test (BIT) Demonstration Procedure
- CDRL A055 - Technical and Logistics Studies and Analyses
- CDRL A058 - Technical Report Study/Services; Technical Support Field Report

15.2.1 **Maintenance and Repairs (TI Required)**

Contractor shall perform depot level repairs on the system and shall return all repairable items to the condition delineated in the TI. Repairs shall include but not be limited to End items, WRAs, SRAs, and repairable components. In order to accomplish these repairs, Contractor shall maintain a depot repair capability which shall include all necessary infra-structure, including facilities, test fixtures, equipment, and tools necessary to repair GFP. Contractor shall induct and evaluate GFM IAW the following listed processes:

i. Warranty: Is the equipment under a warranty on any other job order?
ii. Notify: Inform COR, PCO and DCMA Representative, through Maintenance Management Information System (MMIS), in writing, that equipment is in for repair and provide following info:
    a. Item Description
    b. Part Number
    c. Serial Number
    d. ETM Reading
    e. Origin: (CONUS or OCONUS)
    f. Customer Complaint: (description)
    g. Date Received
    h. Date of Induction
    i. Warranty Repair: (YES or NO)
iii. Induct the Equipment in the Test and Evaluation Cycle: Contractor shall induct all repairs into the Repair Cycle no later than 30 days after receipt of the repairable with a goal of 10 days.
iv. In the event it is determined that the repair is no longer under warranty, notify COR and DCMA Representative, via MMIS, of the results of Test and Evaluation with info as follows:
    a. Date Inducted
    b. T and E Results: Major and Minor repair
v. For repairs that do not fall in the Minor Repair category: Provide PCO, COR and DCMA Representative, in writing, with repair information as follows:
    a. Labor Categories, Estimated Hours, and Cost
    b. Estimated Materiel Needed by P/N and Cost
    c. Total Estimated Cost to Repair
    d. Estimated Repair Completion Date
vi. Follow Threshold guidance (Minor or Major) provided for actual repair as outlined in this SOW.
vii. After delivering a Turret Unit or Electronics Unit to the Government, provide a historical maintenance document from MMIS for all applicable variances.
viii. Request Shipping Information and Disposition from COR.
ix. Ship unit.

Contractor shall automatically begin repair efforts for a Minor Repair whenever all of the following conditions are met:

- Cost threshold to evaluate and restore a GFM item to RFI condition including parts and labor will be delineated in the JO.
- Cost to evaluate and restore a GFM item to RFI condition is less than 75% of replacement cost for a new item.
- Sufficient funds are available on appropriate CLIN.

Contractor shall suspend repair efforts and submit a cost estimate to the PCO for a Major Repair whenever the conditions herein are not met.

Contractor shall meet or exceed the following repair turnaround timeline:

- 30 days from Date Received to Date Inducted.
- 14 days from Date Inducted to Evaluation Complete.
- 60 days from Date Inducted to Minor Repair Complete.
- 30 days from Date Inducted to Submit Cost Estimate for Major Repair.
- 120 days from PCO Authorization to Major Repair Complete.

Contractor shall log failure data into the FRACAS that Contractor maintains for the MTS Family of Systems. Contractor shall deliver a Repair Status Detail Report that provide all pertinent information about the failure symptom, corrective action, repair cost, repair turnaround timeline and RFI testing datasheet.
Deliverable:
- CDRL A057 – Repair Status Detail Report

15.2.2 **SRU Retrofit Modifications (TI Required)**
Contractor shall provide parts and labor to modify GFM to the latest approved configuration. Specific modifications to be incorporated will be specified by the Government. GFM provided for retrofit modification is intended to be RFI when received by Contractor. Contractor shall suspend modification efforts and submit a cost estimate to the PCO whenever Government Furnished Equipment (GFE) repairs are necessary. Contractor shall induct and evaluate GFM according to an established process that conforms to paragraph 15.2.1 of this SOW. Contractor shall deliver an Acceptance Test Data Report.
- CDRL A006 – AT Test Data Report

15.2.3 **Low Value Materiel Repair Parts (TI Required)**
Contractor shall provide Repair Parts that are categorized as low value materiel. This materiel shall be replacement parts or special tools needed for ongoing sustainment operations. (b)(4) (b)(4) Contractor shall deliver an Acceptance Test Data Report.
Deliverable:
- CDRL A006 - AT Test Data Report

15.2.4 **Failure Analysis (Execute without TI)**
Contractor shall maintain a FRACAS utilizing previous MIL-STD-785B as guidance throughout the life of the contract. Contractor shall track failures down to the SRU level. For all identified failure trends during contract period, Contractor shall perform failure analyses to the level required to determine the cause of failure, define the failure mechanism and develop corrective actions where appropriate to limit their recurrence. Trend is defined as any WRA/SRA that has had four (4) trackable failures within a one (1) year period. Data shall be delivered to the Government IAW Failure Analysis and Corrective Action Report (FACAR) Failure Summary and Analysis Report. (b)(4) (b)(4)

Deliverable:
- CDRL A007 - Failure Analysis and Corrective Action Report.
- CDRL A008 - Failure Summary and Analysis Report

15.2.5 **Maintenance Management Information System (MMIS) (TI Required)**
Contractor shall provide MMIS functionality and user support. (b)(4) (b)(4) (b)(4) Contractor shall provide MMIS Help Desk support to answer MMIS functionality questions and to manage user accounts. Contactor shall manage MMIS to ensure the database is complete, accurate and accessible to Government. Access to MMIS shall be secure to prevent unauthorized disclosure in compliance with International Traffic in Arms Regulations (ITAR).

Contractor shall provide MMIS “As-Built CSA” and “As-Maintained CSA” functionality.
Contractor shall provide MMIS “Inventory Management” functionality.
Contractor shall provide MMIS “Reliability Traveler” functionality.
Contractor shall provide MMIS “Configuration Management Workflow” functionality.
Contractor shall provide MMIS “Document Management” functionality.
Contractor shall provide MMIS “Ad Hoc Report” functionality and MMIS “Dashboard” functionality whereby the Government can search data and download data reports.
Contractor shall update MMIS data to incorporate the impacts of engineering design changes and maintenance actions.
Contractor shall deliver the data contents managed in MMIS.
Deliverables
- CDRL A007 – Failure Analysis and Corrective Action Report
- CDRL A008 – Failure Summary and Analysis Report
- CDRL A012 – Configuration Item (CI) Documentation Recommendation
- CDRL A013 – As Built Data
- CDRL A014 – ECP Class I Major
- CDRL A015 – ECP Class II Minor
- CDRL A017 – Request for Variance
- CDRL A025 – Configuration Items Data Report
- CDRL A026 – As Maintained and Modified

- CDRL A027 – Indentured Data List
- CDRL A056 – Asset Report
- CDRL A057 – Repair Status Detail Report
- CDRL A112 – SRU Stock.

15.2.6 (b)(4) **(TI Required)**

(b)(4)

(b)(4)

Deliverables:
- CDRL A007 - Failure Analysis and Corrective Action Report
- CDRL A008 - Failure Summary and Analysis Report
- CDRL A012 - Configuration Item (CI) Documentation Recommendation
- CDRL A013 - As Built Data
- CDRL A014 - ECP Class I Major
- CDRL A015 - ECP Class II Minor
- CDRL A017 - Request for Variance
- CDRL A025 - Configuration Items Data Report
- CDRL A026 - As Maintained and Modified
- CDRL A027 - Indentured Data List
- CDRL A056 - Asset Report
- CDRL A057 - Repair Status Detail Report
- CDRL A112 - SRU Stock.

16.0 **TRAINING (TI Required)**

16.1.1 **Training and Technical Documentation (TI Required)**

Contractor shall prepare source data to support Technical Documents (i.e. Operator Manual(s)).
Deliverables:
- CDRL B008 – MTS Operator Technical Order Source Data
- CDRL B009 – MTS Organizational Level Maintenance Technical Order Source Data

16.1.2 **Training Material (TI Required)**

Contractor shall accomplish all activities needed to develop and deliver both Operator and Maintainer training materials package for the TRITON MTS as required by individual TIs. The training system should replicate the capabilities inherent in the

operational and maintenance environment as closely as possible. The training materials shall be updated by Contractor, as necessary, to support training requirements.
Deliverable:
- CDRL B007 - Training Materials
- CDRL B016 - Certification/Data Report

17.0 **FEASIBILITY STUDIES FOR MTS ENHANCEMENTS (TI Required)**

Contractor shall provide feasibility studies to plan MTS enhancements. Enhancement considerations shall include increased capability, improved reliability, improved supportability, improved ownership costs, improved survivability and improved durability.

Contractor shall utilize a systems engineering approach to analyze the need, analyze alternatives, evaluate technology maturity, evaluate logistics impacts, model system performance and provide design recommendations. Contractor shall estimate investment costs and impacts to ownership costs that would result from implementing MTS enhancements. Contractor shall coordinate periodic in-process reviews to receive comments from Government about technical approach.
Deliverables
- CDRL A038 - Meeting Minutes
- CDRL A039 - Presentation Materials
- CDRL A055 - Technical and Logistics Studies and Analyses

18.0 **TRAVEL (Execute without TI)**

Contractor shall be required to travel to Government installations. The number of trips, personnel types and number of personnel shall be limited to the minimum required to accomplish work requirements. Travel locations are as follows but not limited to (b)(4) The Contractor shall be responsible for arranging all Contractor personnel travel during the program effort IAW the Department of Defense (DOD) Joint Travel Regulations (JTR).

Contractor shall request approval to travel by emailing a request for authorization (providing the names of travelers, rationale for the trip, and dates of arrival and expected return) to the Contracting Officer’s Representative (COR) in advance of the desired travel date.

Informal trip reports via email shall be submitted within three (3) work days of return. Formal Trip reports shall be included in the monthly Contractor’s Progress, Status, and Management Report.
Deliverable:
- CDRL A001 – Contractor's Progress, Status and Management Report (CPSM).

19.0 **DATA**

The Government shall have Unlimited Rights to all source data created specifically for this contract. The Contractor shall make available upon request of the Government, all documentation and media generated or data received from its subcontractors that is used in the performance of this contract.

Contract performance shall be based on freely sharing information with the Government and all contract constituents (prime Contractor and subcontractors). The Government requires access to all technical data relevant to the repair, maintenance or sustainment of the Triton MTS that is developed under the terms of this contract. Data deliverables shall be submitted in accordance with Contract Data Requirements Lists (CDRLs)

20.0 **SYSTEM SAFETY PLAN (TI Required)**

Contractor shall prepare and submit a System Safety Plan (SSP) that documents the safety risk being assumed prior to test or operation of the system, and identifies all safety features of the hardware and software design prior to any event utilizing Government personnel/Soldiers to operate or maintain the equipment. In order to ensure that the system presents no uncontrolled safety hazards to personnel, specific controls or precautions to be followed shall be identified that eliminate or reduce hazards to an acceptable level. The SSP shall identify the specific Level of Rigor (LOR) tasks to provide a sufficient level of confidence that safety-significant or safety related software functions will perform as required. The SSP shall address test plans, procedures, and results to verify compliancy of software safety requirements. Testing must show that identified hazards have been eliminated or controlled to a level of acceptable risk as defined by MIL-STD-882E or delineated in the TI. Additional hazardous states identified during testing shall undergo complete analysis prior to software delivery or use. As a minimum, the SSP should include the following information: introduction; system description; system operation; system safety engineering; conclusions; and recommendations.
Deliverable:
- CDRL A051 - System Safety Plan.

21.0 **DATA ACCESSION LIST (Execute without TI)**

The Data Accession List (DAL) shall specify internally generated data and computer software used by Contractor to develop, test, and manage the program. The format and content of the data listed on the DAL shall be as prepared by the Contractor to document compliance with the SOW Task requirements.

Contractor shall prepare and deliver all necessary documentation in accordance with the Contract Data Requirement List. CDRL numbers invoked by this SOW are summarized as follows:
Deliverables:
- CDRL A130 - Data Accession List

CDRL	SOW Para.	Item Description	Sub Title	DID	1st Submittal / Frequency
A001	4.0 5.1.1 7.3.2.2 7.3.3.2 18.0	Contractor's Progress, Status and Management Report (CPSM)		DI-MGMT-80227	10 DARP/ MNTHY
A002	9.2 12.0 15.1 15.2	Performance Specification Documents		DI-SDMP-81465A	ASGEN/ ASGEN
A003	8.2 9.2 12.0 15.1 15.2	Interface Control Document (ICD)	Software and Firmware	DI-SESS-81248B	ASGEN/ ASGEN
A004	12.0 15.1 15.2	Environmental Stress Screening (ESS) Report	Acceptance Test Procedure	DI-ENVR-81663	ASREQ/ ASREQ
A005	12.0 15.1 15.2	Test Program Set (TPS) and Operational Test Program Set (OTPS) Acceptance Test Procedures (ATPS)	Acceptance Test Procedure	DI-ATTS-80282B	60 DPTT/ ONE/R
A006	12.0 15.2.2 15.2.3	Quality Assurance Provisions (QAP)	Acceptance Test Data Report	DI-SESS-80789A	ASREQ/ ASREQ
A007	10.0 15.2.4 15.2.5 15.2.6	Failure Analysis and Corrective Action Report (FACAR)		DI-SESS-81927	10 DARP/ ASGEN
A008	10.0 15.2.4 15.2.5 15.2.6	Failure Summary and Analysis Report		DI-SESS-80255A	10 DARP/ QRTLY
A009	7.0	Supplier's Configuration Management Plan		DI-SESS-80858C	OTIME/ 60ARO
A010	7.4 15.2	Technical Data Package		DI-SESS-80776A	ASGEN/ ASGEN
A011	7.0	Configuration Audit Plan	Functional and Physical Configuration Audit Plan (PCA)	DI-SESS-81646B	ASREQ/ ASREQ
A012	6.0 6.1 7.0 15.2.5 15.2.6	Configuration Item (CI) Documentation Recommendation		DI-SESS-82007	ASREQ/ ASREQ

A013	7.0 7.2 12.0 15.2.5 15.2.6	Configuration Status Accounting (CSA) Information	As Built Data	DI-SESS-81253C	ASREQ/ ASREQ
A014	7.3.3 7.3.3.1 8.1 8.2 15.2.5 15.2.6	Engineering Change Proposal (ECP)	Class I Major	DI-SESS-80639D	ASREQ/ ASREQ
A015	7.3.3 7.3.3.2 15.2.5 15.2.6	Engineering Change Proposal (ECP)	Class II Minor	DI-SESS-80639D	ASREQ/ ASREQ
A017	7.3.4 15.2.5 15.2.6	Request for Variance (RFV)		DI-SESS-80640D	ASREQ/ 15DARC
A018	5.1.1	Technical Report-Study/Services	Software Change Request Report	DI-MISC-80508B	10 DARP/ MNTHY
A019	5.1.1	Software Development Plan (SDP)		DI-IPSC-81427B	10DAC/ ASGEN
A020	5.1.1	Software Test Report (STR)		DI-IPSC-81440A	ASGEN/ ASGEN
A021	5.1.1 9.2	Software Version Description (SVD)		DI-IPSC-81442A	ASGEN/ ASGEN
A022	5.1.1 15.1 15.2	Computer Software Product End Items (CSPEI)		DI-AVCS-80700A	ASGEN/ ASGEN
A023	5.1.1 9.2 15.1 15.2	Firmware Support Manual (FSM)		DI-IPSC-81448B	ASREQ/ ASREQ
A024	5.1.1 9.2 15.1 15.2	Commercial Off-The-Shelf (COTS) Manuals and Associated Supplemental Data	Software Installation Manual	DI-TMSS-80527C	ASREQ/ ASREQ
A025	7.1 15.2.5 15.2.6	Configuration Status Accounting Information (CSA)	Configuration Items Data Report	DI-SESS-81253C	ASREQ/ ASREQ
A026	15.2.5 15.2.6	Configuration Status Accounting Information (CSA)	As Maintained and Modified	DI-SESS-81253C	ASREQ/ ASREQ

A027	7.1 15.2 15.2.5 15.2.6	Configuration Status Accounting Information (CSA)	Product Generation Report or Indentured Product List	DI-SESS-81253C	SEE BLK 16/ ASGEN
A028	15.1 15.2	Technical Report-Study/Services	Assembly Instructions	DI-MISC-80508B	ASGEN/ ASGEN
A029	15.1 15.2	Test Procedure	Manufacturing, Alignment, and Unit Test Procedure	DI-NDTI-80603A	ASGEN/ ASGEN
A030	9.0	Test Procedure	Test Procedure Verification	DI-NDTI-80603A	ASGEN/ ASGEN
A031	9.0 12.0	Technical Report-Study/Services	Verification Test Report	DI-MISC-80508B	ASREQ/ ASREQ
A032	9.0	Technical Report-Study/Services	Similarity Analysis Technical Report	DI-MISC-80508B	ASREQ/ ASREQ
A033	9.2	Technical Manual (TM) Contractor Furnished Aeronautical Equipment or Contractor Furnished Equipment (CFAE/CFE) Notices	Commercial Manuals	DI-TMSS-80067C	ASREQ/ ASREQ
A034	9.2	Commercial Drawings /Models and Associated Lists	Commercial Drawings	DI-SESS-81003E	ASREQ/ ASREQ
A036	9.2	Drawings, Installation Control, for Electronic Equipment	Developmental Drawings	MIL-D-23140D	ASGEN/ ASGEN
A037	9.2	Special Tooling (ST) Drawings/Models and Associated Lists	Special Tooling Drawings	DI-SESS-81008E	ASGEN/ ASGEN
A038	4.2 4.3 11.0 15.1 17.0	Report, Record of Meeting/Minutes	Meeting Minutes	DI-ADMN-81505	ASGEN/ ASGEN

A039	4.2 4.3 7.3.2.2 11.0 15.1 17.0	Presentation Materials		DI-ADMN-81373	ASGEN/ ASGEN
A040	4.1	Systems Engineering Management Plan (SEMP)	Integrated Master Plan	DI-SESS-81785A	ASGEN/ ASREQ
A041	4.1	Systems Engineering Management Plan	Work Breakdown Structure	DI-SESS-81785A	ASREQ/ ASREQ
A042	4.1	Integrated Program Management Report (IPMR)	Integrated Master Schedule (IMS)	DI-MGMT-81861A	ASREQ/ ASGEN
A043	4.1	Integrated Program Management Report (IPMR)	Contract Performance Report (CPR)	DI-MGMT-81861A	ASREQ/ ASGEN
A044	6.1 10.0	Reliability Prediction of Electronic Equipment	Reliability Analysis Report (MTBF)	MIL-HDBK-217F(2)	ASGEN/ ASGEN
A045	6.1 10.0	Reliability Prediction of Electronic Equipment	Reliability Analysis Report (MTBMA)	MIL-HDBK-217F(2)	ASGEN/ ASGEN
A046	6.1 10.0	Reliability-Centered Maintenance Analysis Data		DI-ILSS-80111A	ASREQ/ ASREQ
A047	6.1	Reliability and Maintainability Predictions Report		DI-SESS-81497A	ASREQ/ ASREQ
A048	6.0 6.1	Reliability and Maintainability Predictions Report	Testability Requirements Analysis Report	DI-SESS-81497A	ASREQ/ ASREQ
A049	6.1 15.1 15.2	Maintainability and Built In Test (BIT) Demonstration Procedure	BIT Catalog Matrix	DI-SESS-81604A	ASREQ/ ASREQ
A050	6.1 10.0	Failure Modes, Effects, and Criticality Analysis Report	FMECA Report	DI-SESS-81495A	ASGEN/ ASREQ
A051	6.1 20.0	Safety Studies Plan	System Safety Plan	DI-SAFT-81066	ASREQ/ ASREQ
A052	6.0 6.1 9.0	System Safety Hazard Analysis Report (SSHAR)	Fault Hazard Analysis Report	DI-SAFT-80101C	ASREQ/ ASREQ

A053	6.0 6.1	Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities	Material Safety Data Sheets (MSDS)	FED-STD-313E	ASREQ/ ASREQ
A055	5.2 5.3 6.0 6.1 15.1 15.2 17.0	Technical Report-Study/Services	Technical and Logistics Studies and Analyses	DI-MISC-80508B	ASGEN/ ASGEN
A056	4.7 15.2.5 15.2.6	Technical Report-Study/Services	Asset Report	DI-MISC-80508B	10DARP/ MTHLY
A057	15.2.1 15.2.5 15.2.6	Technical Report-Study/Services	Repair Status Detail Report	DI-MISC-80508B	ASGEN/ see CDRL
A058	9.0 15.2	Technical Report-Study/Services	Technical Support (Field) Report	DI-MISC-80508B	ASGEN/ Weekly
A059	9.0 9.1	Test Plan	Qualification /Environmental	DI-NDTI-80566A	ASREQ/ ASREQ
A060	6.0 6.1	Level of Repair Analysis (LORA) Report		DI-PSSS-81872A	ASREQ/ ASREQ
A065	15.1	Depot Maintenance Study		DI-ILSS-80739	ASREQ/ ONE/R
A067	5.2	Product Drawings/Models and Associated Lists	Production TDP	DI-SESS-81000E	ASREQ/ ASREQ
A068	7.0	Configuration Audit Summary Report and Certification		DI-SESS-81022D	ASREQ/ ASREQ
A069	5.1.1	Software Requirements Specification (SRS)		DI-IPSC-81433A	ASREQ/ ONE/R
A085	5.1.1	Software Test Plan (STP)		DI-IPSC-81438A	ASGEN/ ASGEN
A086	5.1.1	Software Test Description (STD)		DI-IPSC-81439A	14 DPTT FQT/ ASGEN

A088	9.0	Electromagnetic Interference Test Report (EMITR)	EMI Test Report	DI-EMCS-80200C	ASREQ/ ASGEN
A093	6.0 6.1	Technical Report-Study/Services	COMPASS Data	DI-MISC-80508B	ASREQ/ ASGEN
A094	6.0	Technical Report-Study/Services	SESAME Data	DI-MISC-80508B	ASREQ/ ASGEN
A102	9.0	Electromagnetic Interference Test Procedures (EMITP)	EMI Test Procedures	DI-EMCS-80201C	ASREQ/ ASGEN
A103	9.0	Electromagnetic Interference Test Procedures (EMITP)	EMI Test Plan	DI-EMCS-80201C	ASREQ/ ASREQ
A105	9.1	Scientific and Technical Reports	Airworthiness Release Data Package	DI-MISC-80711A	ASREQ/ ASGEN
A107	5.1.1 15.1	Technical Report-Study/Services	Software/Firmware Compatibility Matrix	DI-MISC-80508B	ASREQ/ ASGEN
A108	5.1.1	Software Installation Plan (SIP)		DI-IPSC-81428A	ASREQ/ ONE/R
A110	5.2 6.0 6.1	Technical Report-Study/Services	Sparing Recommendation Analysis	DI-MISC-80508B	ASREQ/ QTRLY
A111	5.2	Item Unique Identification (IUID) Marking Activity, Validation and Verification Report	UID Data of Embedded Items	DI-MGMT-81804A	ASREQ/ ASGEN
A112	15.2.5 15.2.6	Status of Government Furnished Equipment (GFE)	SRU Stock	DI-MGMT-80269	ASREQ/ ASGEN
A118	5.1.1	Engineering Change Proposal System Safety Report (ECPSSR)		DI-SAFT-80103C	ASREQ/ ASGEN
A119	5.2 6.0	Calibration and Measurement Requirements Summary (CMARS)		MIL-STD-1839D	ASREQ/ ASGEN
A120	11.0	Bill of Materials (BOM) for Logistics and Supply Chain Risk Management		DI-PSSS-81656B	60DAC/ ONER

A121	11.0	DMSMS Resolution Options Business Case Analysis (BCA)	Business Case Analysis (BCA)	DOD Product Support BCA Guidebook	60DAC/ ONE/R
A122	11.0	Source Data for Forecasting Diminishing Manufacturing Sources and Material Shortages (DMSMS) Management		DI-MGMT-81948	90DAC/ ONE/R
A123	5.1.1	Technical Report - Study/Services	System Release Configuration Document	DI-MISC-80508B	ASREQ/ ONE/R
A129	7.3.1	Specification Change Notice (SCN)		DI-SESS-80643D	ASGEN/ ASREQ
A130	7.3.4 21.0	Data Accession List (DAL)		DI-MGMT-81453A	EOQ/ QRTLY
A131	5.2	Engineering Data For Provisioning (EDFP)		DI-SESS-81874	ASREQ/ ASREQ
A132	3.1	Contractor's Funds and Man-hour Expenditure Reports	eCRAFT	DI-FNCL-80331A	SEE CDRL
B002	6.0 6.1	Technical Report-Study/Services	Total Ownership Cost (TOC) and Repair. Level Analysis (RLA) Source Data	DI-MISC-80508B	ASREQ/ ASGEN
B004	5.2 6.0 6.3	Logistics Product Data	MTS Indentured Product List	SAE GEIA-STD-0007	ASGEN/ ASGEN
B005	6.0	Logistics Management Information (LMI) Data Product	MTS LMI Data Base	SAE GEIA-STD-0007	ASREQ/ ASREQ
B006	6.0 6.1.10	Technical Data Package	MTS Operator and Organization Level	DI-SESS-80776A	ASREQ/ ASREQ
B007	16.1.2	Training Materials	Maintenance Training Courseware/Materials and Source Data	DI-ILSS-80872	ASREQ/ ASREQ
B008	16.1.1	Technical Manual Research and Analysis Source Data	MTS Operator Technical Order Source Data	DI-TMSS-81354	ASGEN/ ASGEN

B009	16.1.1	Technical Manual Research and Analysis Source Data	MTS Organizational Level Maintenance Technical Order Source Data	DI-TMSS-81354	ASGEN/ ASGEN
B011	6.0 6.1	Logistics Product Data	MTS Support Equipment Recommendation Data (SERD)	SAE-GEIA-STD-0007	ASREQ/ ASREQ
B012	5.2 6.0	Logistics Product Data	MTS Interim Support Items List (ISIL)	SAE-GEIA-STD-0007	ASGEN/ ASGEN
B014	5.2 6.0	Special Packaging Instructions (SPI)	MTS Special Packaging Instructions (SPI)	DI-PACK-80121C	ASREQ/ ASREQ
B015	15.1	Manuals, Technical- on Equipment Maintenance Manual	MTS Maintenance Instruction Technical Manuals	MIL-DTL-83495D	ASREQ/ ASREQ
B016	16.1.2	Certification/Data Report		DI-MISC-80678	ASGEN/ ASGEN

CLAUSES INCORPORATED BY FULL TEXT

HQ C-1-0002 ITEM(S) - ENGINEERING SERVICES (NAVSEA) (APR 2004)

(a) The Contractor shall furnish the services of qualified engineer(s) to:

(1) Assist in planning, installation, testing, checkout, adjustment, operation, disassembly, and repair of MTS ; and

(2) Perform on-the-job instruction and training of Navy personnel (military and/or civilian). (Not applicable to SCN funded items).

(b) For purposes of this requirement, the following definitions apply:

(1) "Domestic services" means services rendered within the United States (U.S.) and/or on Navy vessels in ports within the U.S. or at sea, provided the vessel does not enter port outside the U.S.

(2) "Foreign services" means services other than domestic.

(3) "United States" means the United States, its possessions, Puerto Rico, and any other place subject to its jurisdiction, but does not include leased bases or trust territories.

(4) "Man day" means the services of one engineer for one day of eight hours, Monday through Friday (excluding holidays).

(5) "Holidays" means all Federally recognized holidays.

(c) The engineering services shall be performed within the limits, if any, as to place(s) and period(s) specified therefore, as authorized by TI.

(d) When authorized under paragraph (c) above, each engineer shall perform engineering services in accordance with supplemental instructions provided by the Contract Administration Office (CAO) cognizant of vessel construction/conversion contract, a representative of the authorizing activity or a representative of the activity where the engineering services are performed, as applicable. However, each engineer shall not be considered an employee of the Government.

(e) Travel time necessary for performance of such services shall be included in computing the man days of service. When services are performed at sea and the engineer(s) is unable to leave the vessel when work is completed, the remaining time aboard the vessel shall be considered travel time for purposes of computing the man days of services. However, the Contractor shall be paid for no more than one man day of service per calendar day for each engineer while in travel status.

(f) Passports, visas, inoculations and other medical requirements necessary for performance of engineering services shall be at the sole responsibility and expense of the Contractor.

(g) Each time services are performed, the engineer(s) shall obtain a certification of performance from a responsible U.S. Government official aboard the vessel or at the activity where the services were performed, citing tasks satisfactorily performed and hours worked each day.

(h) The maximum liability of the Government for each engineering services item shall not exceed the amount set forth in the Schedule, or the amount obligated whichever is less. If, at any time, the Contractor has reason to believe that the amounts it expects to incur in the performance of each engineering services item in the next succeeding sixty (60) days, when added to all amounts previously incurred, will exceed seventy-five percent (75%) of the amount then set forth in the Schedule; or if, at any time, the Contractor has reason to believe that the man days and/or amount for the full performance of each engineering services item will be greater than or substantially less than that set forth in the Schedule, the Contractor shall notify the Contracting Officer in writing, giving its revised estimate of the man days and/or amount for the performance of said item. The Contractor shall not exceed the obligated amount for each engineering services item, unless and until the Contracting Officer has increased such amount in writing.

(i) In the event the Government does not designate time(s) and place(s) sufficient for performance of the total quantity of engineering services set forth in the Schedule within the period(s) provided therefore, those services not furnished shall be deemed to be terminated for the convenience of the Government at no cost to the Government. Such termination shall be evidenced by a written document signed by the Contracting Officer and mailed or otherwise furnished to the Contractor.

HQ C-2-0032 INFORMATION AND DATA FURNISHED BY THE GOVERNMENT - ALTERNATE II (NAVSEA) (SEP 2009)

(a) NAVSEA Form 4340/2 or Schedule C, as applicable, Government Furnished Information, attached hereto, incorporates by listing or specific reference, all the data or information which the Government has provided or will provide to the Contractor except for

(1) The specifications set forth in Section C, and

(2) Government specifications, including drawings and other Government technical documentation which

are referenced directly or indirectly in the specifications set forth in Section C and which are applicable to this contract as specifications, and which are
generally available and provided to Contractors or prospective Contractors upon proper request, such as Federal or Military Specifications, and Standard Drawings, etc.

(b) Except for the specifications referred to in subparagraphs (a)(1) and (2) above, the Government will not be obligated to provide to the Contractor any specification, drawing, technical documentation or other publication which is not listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable, notwithstanding anything to the contrary in the specifications, the publications listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable, the clause entitled "GOVERNMENT PROPERTY" (FAR 52.245-1) or "GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES " (FAR 52.245-2), as applicable, or any other term or condition of this contract.

(c)(1) The Contracting Officer may at any time by written order:

(i) delete, supersede, or revise, in whole or in part, data listed or specifically referenced in NAVSEA Form 4340/2 or Schedule C, as applicable; or

(ii) add items of data or information to NAVSEA Form 4340/2 or Schedule C, as applicable; or

(iii) establish or revise due dates for items of data or information in NAVSEA Form 4340/2 or Schedule C, as applicable.

(2) If any action taken by the Contracting Officer pursuant to subparagraph (c)(1) immediately above causes an increase or decrease in the costs of, or the time required for, performance of any part of the work under this contract, the contractor may be entitled to an equitable adjustment in the contract amount and delivery schedule in accordance with the procedures provided for in the "CHANGES" clause of this contract.

CLAUSES INCORPORATED BY FULL TEXT

HQ C-2-0038 PERMITS AND RESPONSIBILITIES (NAVSEA) (SEP 1990)

The Contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits, and for complying with any applicable Federal, State, and Municipal laws, codes, and regulations, in connection with any movement over the public highways of overweight/overdimensional materials.

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

HQ D-1-0002 PACKAGINGOF SUPPLIES

Item(s) CLINs 0001-0005 The supplies furnished hereunder shall be packaged in accordance with best commercial practice.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	N/A
0001AA	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government
9000	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

252.211-7007	Reporting of Government-Furnished Property	AUG 2012
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	APR 2012
252.245-7003	Contractor Property Management System Administration	APR 2012

CLAUSES INCORPORATED BY FULL TEXT

HQ E-2-0015 QUALITY MANAGEMENT SYSTEM REQUIREMENTS (NAVSEA) (APR 2017)

Quality Management System Requirements. The Contractor shall provide and maintain a quality management system that, as a minimum, adheres to the requirements of ANSI/ISO/ASQ 9001-2015 Quality Management Systems and supplemental requirements imposed by this contract. The quality management system procedures, planning, and all other documentation and data that comprise the quality management system shall be made available to the Government for review. Existing quality documents that meet the requirements of this contract may continue to be used. The Government may perform any necessary inspections, verifications, and evaluations to ascertain conformance to requirements and the adequacy of the implementing procedures. The Contractor shall require of subcontractors a quality management system achieving control of the quality of the services and/or supplies provided. The Government reserves the right to disapprove the quality management system or portions thereof when it fails to meet the contractual requirements.

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	N/A	N/A	N/A	N/A
0001AA	(b)(4)	N/A	N/A FOB: Destination	
0002	(b)(4)	N/A	N/A FOB: Destination	
0003	(b)(4)	N/A	N/A FOB: Destination	
0004	(b)(4)	N/A	N/A FOB: Destination	
0005	(b)(4)	N/A	N/A FOB: Destination	
9000	(b)(4)	N/A	N/A FOB: Destination	

CLAUSES INCORPORATED BY FULL TEXT

HQ F-2-0003 DATA DELIVERY LANGUAGE FOR SERVICES ONLY PROCUREMENTS

All data to be furnished under this contract shall be delivered prepaid to the destination(s) and at the time(s) specified on the Contract Data Requirements List(s), DD Form 1423.

Section G - Contract Administration Data

ECRAFT

ECRAFT

CNIN-NOTICE-0005 eCRAFT STANDARD LANGUAGE (MAR 2017)

NOTE - eCRAFT reporting is not required at this time. NSWC Crane Division anticipates implementation of eCRAFT reporting requirements in Fiscal Year 2018 (01 October 2017). It is anticipated that eCRAFT reporting will be required during the period of performance of this contract/task order and will be indicated through a subsequent modification.

(a) The Contractor agrees to upload the Contractor's Funds and Man-hour Expenditure Reports in the Electronic Cost Reporting and Financial Tracking (eCRAFT) System and submit the Contract Status Report on the day and for the same timeframe the contractor submits an invoice into the Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT) system. Compliance with this requirement is a material requirement of this contract. Failure to comply with this requirement may result in contract termination.

(b) The Contract Status Report indicates the progress of work and the status of the program and of all assigned tasks. It informs the Government of existing or potential problem areas.

(c) The Contractor's Funds and Man-hour Expenditure Report reports contractor expenditures for labor, materials, travel, subcontractor usage, and other contract charges.

(1) Access:
eCRAFT: Reports are uploaded through the eCRAFT System Periodic Report Utility (EPRU). The EPRU spreadsheet and user manual can be obtained at: http://www.navsea.navy.mil/Home/Warfare-Centers/NUWCNewport/Partnerships/Commercial-Contracts/Information-eCraft-/ under eCRAFT information. The eCRAFT e-mail address for report submission is: Ecraft.nuwc.npt.fct@navy.mil. If you have problems uploading reports, please see the Frequently Asked Questions at the site address above.

(2) Submission and Acceptance/Rejection:
The contractor shall submit their reports on the same day and for the same timeframe the contractor submits an invoice in iRAPT. The amounts shall be the same. eCRAFT acceptance/rejection will be indicated by e-mail notification from eCRAFT.

ACCOUNTING AND APPROPRIATION DATA

AA: 1781506 J4UC 310 00019 0 050120 2D 000000
COST CODE: A00004686899
AMOUNT: $70,000.00

ACRN	CLIN/SLIN	CIN	AMOUNT
AA	0001AA	130074033600001	$70,000.00

CLAUSES INCORPORATED BY REFERENCE

52.216-8	Fixed Fee	JUN 2011
52.232-18	Availability Of Funds	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.245-1	Government Property	JAN 2017
52.245-1	Government Property	JAN 2017
52.245-9	Use And Charges	APR 2012
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	SEP 2011
252.211-7007	Reporting of Government-Furnished Property	AUG 2012

252.232-7006	Wide Area WorkFlow Payment Instructions	MAY 2013
252.245-7001	Tagging, Labeling, and Marking of Government-Furnished Property	APR 2012
252.245-7002	Reporting Loss of Government Property	DEC 2017
252.245-7003	Contractor Property Management System Administration	APR 2012
252.245-7004	Reporting, Reutilization, and Disposal	DEC 2017

CLAUSES INCORPORATED BY FULL TEXT

5252.232-9104 ALLOTMENT OF FUNDS (NAVSEA) (JAN 2008)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract line item number/contract subline item number (CLIN/SLIN), subject to the clause entitled "FIXED FEE" (FAR 52.216-8) or "INCENTIVE FEE" (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled "LIMITATION OF FUNDS" (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

ITEM(S)	ALLOTED TO COST	ALLOTTED TO FEE	ESTIMATED	Period of Performance
0001AA	(b)(4)	(b)(4)	$70,000.00	09/19/18-11/30/19

(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs NONE are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled "LIMITATION OF COST" (FAR 52.232-20).

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the costs of performance of fully funded CLINs/SLINs.

HQ G-2-0002 CONTRACT ADMINISTRATION DATA LANGUAGE

Enter below the address (street and number, city, county, state and zip code) of the Contractor's facility which will administer the contract if such address is different from the address shown on the SF26 or SF33 as applicable.

McKinney, TX

HQ G-2-0003 CONTRACTING OFFICER'S REPRESENTATIVE (NAVSEA)(APR 2015)

CONTRACTING OFFICER'S REPRESENTATIVE:

COMMANDER
ATTN: (b)(6) Code JXQ, BLDG 3291
NAVAL SURFACE WARFARE CENTER, CRANE DIVISION
300 HIGHWAY 361
CRANE, IN 47522-5000
Tel: (b)(6)
Email: (b)(6)

HQ G-2-0009 SUPPLEMENTAL INSTRUCTIONS REGARDING INVOICING (NAVSEA) (APR 2015)

(a) For other than firm fixed priced contract line item numbers (CLINs), the Contractor agrees to segregate costs incurred under this contract/task order (TO), as applicable, at the lowest level of performance, either at the technical instruction (TI), sub line item number (SLIN), or contract line item number (CLIN) level, rather than on a total contract/TO basis, and to submit invoices reflecting costs incurred at that level. Supporting documentation in Wide Area Workflow (WAWF) for invoices shall include summaries of work charged during the period covered as well as overall cumulative summaries by individual labor categories, rates, and hours (both straight time and overtime) invoiced; as well as, a cost breakdown of other direct costs (ODCs), materials, and travel, by TI, SLIN, or CLIN level. For other than firm fixed price subcontractors, subcontractors are also required to provide labor categories, rates, and hours (both straight time and overtime) invoiced; as well as, a cost breakdown of ODCs, materials, and travel invoiced. Supporting documentation may be encrypted before submission to the prime contractor for WAWF invoice submittal. Subcontractors may email encryption code information directly to the Contracting Officer (CO) and Contracting Officer Representative (COR). Should the subcontractor lack encryption capability, the subcontractor may also email detailed supporting cost information directly to the CO and COR; or other method as agreed to by the CO.

(b) Contractors submitting payment requests and receiving reports to WAWF using either Electronic Data Interchange (EDI) or Secure File Transfer Protocol (SFTP) shall separately send an email notification to the COR and CO on the same date they submit the invoice in WAWF. No payments shall be due if the contractor does not provide the COR and CO email notification as required herein.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

252.245-7002 Reporting Loss of Government Property DEC 2017

CLAUSES INCORPORATED BY FULL TEXT

252.204-7012 SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING (OCT 2016)

(a) Definitions. As used in this clause--

Adequate security means protective measures that are commensurate with the consequences and probability of loss, misuse, or unauthorized access to, or modification of information.

Compromise means disclosure of information to unauthorized persons, or a violation of the security policy of a system, in which unauthorized intentional or unintentional disclosure, modification, destruction, or loss of an object, or the copying of information to unauthorized media may have occurred.

Contractor attributional/proprietary information means information that identifies the contractor(s), whether directly or indirectly, by the grouping of information that can be traced back to the contractor(s) (e.g., program description, facility locations), personally identifiable information, as well as trade secrets, commercial or financial information, or other commercially sensitive information that is not customarily shared outside of the company.

Controlled technical information means technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination. Controlled technical information would meet the criteria, if disseminated, for distribution statements B through F using the criteria set forth in DoD Instruction 5230.24, Distribution Statements on Technical Documents. The term does not include information that is lawfully publicly available without restrictions.

Covered contractor information system means an unclassified information system that is owned, or operated by or for, a contractor and that processes, stores, or transmits covered defense information.

Covered defense information means unclassified controlled technical information or other information, as described in the Controlled Unclassified Information (CUI) Registry at http://www.archives.gov/cui/registry/category-list.html, that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Governmentwide policies, and is--

(1) Marked or otherwise identified in the contract, task order, or delivery order and provided to the contractor by or on behalf of DoD in support of the performance of the contract; or

(2) Collected, developed, received, transmitted, used, or stored by or on behalf of the contractor in support of the performance of the contract.

Cyber incident means actions taken through the use of computer networks that result in a compromise or an actual or potentially adverse effect on an information system and/or the information residing therein.

Forensic analysis means the practice of gathering, retaining, and analyzing computer-related data for investigative purposes in a manner that maintains the integrity of the data.

Information system means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information.

Malicious software means computer software or firmware intended to perform an unauthorized process that will have adverse impact on the confidentiality, integrity, or availability of an information system. This definition includes a virus, worm, Trojan horse, or other code-based entity that infects a host, as well as spyware and some forms of adware.

Media means physical devices or writing surfaces including, but is not limited to, magnetic tapes, optical disks, magnetic disks, large-scale integration memory chips, and printouts onto which covered defense information is recorded, stored, or printed within a covered contractor information system.

Operationally critical support means supplies or services designated by the Government as critical for airlift, sealift, intermodal transportation services, or logistical support that is essential to the mobilization, deployment, or sustainment of the Armed Forces in a contingency operation.

Rapidly report means within 72 hours of discovery of any cyber incident.

Technical information means technical data or computer software, as those terms are defined in the clause at DFARS 252.227-7013, Rights in Technical Data--Noncommercial Items, regardless of whether or not the clause is incorporated in this solicitation or contract. Examples of technical information include research and engineering data, engineering drawings, and associated lists, specifications, standards, process sheets, manuals, technical reports, technical orders, catalog-item identifications, data sets, studies and analyses and related information, and computer software executable code and source code.

(b) Adequate security. The Contractor shall provide adequate security on all covered contractor information systems. To provide adequate security, the Contractor shall implement, at a minimum, the following information security protections:

(1) For covered contractor information systems that are part of an information technology (IT) service or system operated on behalf of the Government, the following security requirements apply:

(i) Cloud computing services shall be subject to the security requirements specified in the clause 252.239-7010, Cloud Computing Services, of this contract.

(ii) Any other such IT service or system (i.e., other than cloud computing) shall be subject to the security requirements specified elsewhere in this contract.

(2) For covered contractor information systems that are not part of an IT service or system operated on behalf of the Government and therefore are not subject to the security requirement specified at paragraph (b)(1) of this clause, the following security requirements apply:

(i) Except as provided in paragraph (b)(2)(ii) of this clause, the covered contractor information system shall be subject to the security requirements in National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, ``Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations" (available via the internet at http://dx.doi.org/10.6028/NIST.SP.800-171) in effect at the time the solicitation is issued or as authorized by the Contracting Officer.

(ii)(A) The Contractor shall implement NIST SP 800-171, as soon aspractical, but not later than December 31, 2017. For all contracts awarded prior to October 1, 2017, the Contractor shall notify the DoD Chief Information Officer (CIO), via email at osd.dibcsia@mail.mil, within 30 days of contract award, of any security requirements specified by NIST SP 800-171 not implemented at the time of contract award.

(B) The Contractor shall submit requests to vary from NIST SP 800-171 in writing to the Contracting Officer, for consideration by the DoD CIO. The Contractor need not implement any security requirement adjudicated by an authorized representative of the DoD CIO to be nonapplicable or to have an alternative, but equally effective, security measure that may be implemented in its place.

(C) If the DoD CIO has previously adjudicated the contractor's requests indicating that a requirement is not applicable or that an alternative security measure is equally effective, a copy of that approval shall be provided to the Contracting Officer when requesting its recognition under this contract.

(D) If the Contractor intends to use an external cloud service provider to store, process, or transmit any covered defense information in performance of this contract, the Contractor shall require and ensure that the cloud service provider meets security requirements equivalent to those established by the Government for the Federal Risk and Authorization Management Program (FedRAMP) Moderate baseline (https://www.fedramp.gov/resources/documents/) and that the cloud service provider complies with requirements in paragraphs (c) through (g) of this clause for cyber incident reporting, malicious software, media preservation and protection, access to additional information and equipment necessary for forensic analysis, and cyber incident damage assessment.

(3) Apply other information systems security measures when the Contractor reasonably determines that information systems security measures, in addition to those identified in paragraphs (b)(1) and (2) of this clause, may be required to provide adequate security in a dynamic environment or to accommodate special circumstances (e.g., medical devices) and any individual, isolated, or temporary deficiencies based on an assessed risk or vulnerability. These measures may be addressed in a system security plan.

(c) Cyber incident reporting requirement.

(1) When the Contractor discovers a cyber incident that affects a covered contractor information system or the covered defense information residing therein, or that affects the contractor's ability to perform the requirements of the contract that are designated as operationally critical support and identified in the contract, the Contractor shall--

(i) Conduct a review for evidence of compromise of covered defense information, including, but not limited to, identifying compromised computers, servers, specific data, and user accounts. This review shall also include analyzing covered contractor information system(s) that were part of the cyber incident, as well as other information systems on the Contractor's network(s), that may have been accessed as a result of the incident in order to identify compromised covered defense information, or that affect the Contractor's ability to provide operationally critical support; and

(ii) Rapidly report cyber incidents to DoD at http://dibnet.dod.mil.

(2) Cyber incident report. The cyber incident report shall be treated as information created by or for DoD and shall include, at a minimum, the required elements at http://dibnet.dod.mil.

(3) Medium assurance certificate requirement. In order to report cyber incidents in accordance with this clause, the Contractor or subcontractor shall have or acquire a DoD-approved medium assurance certificate to report cyber incidents. For information on obtaining a DoD-approved medium assurance certificate, see http://iase.disa.mil/pki/eca/Pages/index.aspx.

(d) Malicious software. When the Contractor or subcontractors discover and isolate malicious software in connection with a reported cyber incident, submit the malicious software to DoD Cyber Crime Center (DC3) in accordance with instructions provided by DC3 or the Contracting Officer. Do not send the malicious software to the Contracting Officer.

(e) Media preservation and protection. When a Contractor discovers a cyber incident has occurred, the Contractor shall preserve and protect images of all known affected information systems identified in paragraph (c)(1)(i) of this

clause and all relevant monitoring/packet capture data for at least 90 days from the submission of the cyber incident report to allow DoD to request the media or decline interest.

(f) Access to additional information or equipment necessary for forensic analysis. Upon request by DoD, the Contractor shall provide DoD with access to additional information or equipment that is necessary to conduct a forensic analysis.

(g) Cyber incident damage assessment activities. If DoD elects to conduct a damage assessment, the Contracting Officer will request that the Contractor provide all of the damage assessment information gathered in accordance with paragraph (e) of this clause.

(h) DoD safeguarding and use of contractor attributional/proprietary information. The Government shall protect against the unauthorized use or release of information obtained from the contractor (or derived from information obtained from the contractor) under this clause that includes contractor attributional/proprietary information, including such information submitted in accordance with paragraph (c). To the maximum extent practicable, the Contractor shall identify and mark attributional/proprietary information. In making an authorized release of such information, the Government will implement appropriate procedures to minimize the contractor attributional/proprietary information that is included in such authorized release, seeking to include only that information that is necessary for the authorized purpose(s) for which the information is being released.

(i) Use and release of contractor attributional/proprietary information not created by or for DoD. Information that is obtained from the contractor (or derived from information obtained from the contractor) under this clause that is not created by or for DoD is authorized to be released outside of DoD--

(1) To entities with missions that may be affected by such information;

(2) To entities that may be called upon to assist in the diagnosis, detection, or mitigation of cyber incidents;

(3) To Government entities that conduct counterintelligence or law enforcement investigations;

(4) For national security purposes, including cyber situational awareness and defense purposes (including with Defense Industrial Base (DIB) participants in the program at 32 CFR part 236); or

(5) To a support services contractor (``recipient'') that is directly supporting Government activities under a contract that includes the clause at 252.204-7009, Limitations on the Use or Disclosure of Third-Party Contractor Reported Cyber Incident Information.

(j) Use and release of contractor attributional/proprietary information created by or for DoD. Information that is obtained from the contractor (or derived from information obtained from the contractor) under this clause that is created by or for DoD (including the information submitted pursuant to paragraph (c) of this clause) is authorized to be used and released outside of DoD for purposes and activities authorized by paragraph (i) of this clause, and for any other lawful Government purpose or activity, subject to all applicable statutory, regulatory, and policy based restrictions on the Government's use and release of such information.

(k) The Contractor shall conduct activities under this clause in accordance with applicable laws and regulations on the interception, monitoring, access, use, and disclosure of electronic communications and data.

(l) Other safeguarding or reporting requirements. The safeguarding and cyber incident reporting required by this clause in no way abrogates the Contractor's responsibility for other safeguarding or cyber incident reporting pertaining to its unclassified information systems as required by other applicable clauses of this contract, or as a result of other applicable U.S. Government statutory or regulatory requirements.

(m) Subcontracts. The Contractor shall--

(1) Include this clause, including this paragraph (m), in subcontracts, or similar contractual instruments, for operationally critical support, or for which subcontract performance will involve covered defense information, including subcontracts for commercial items, without alteration, except to identify the parties. The Contractor shall determine if the information required for subcontractor performance retains its identity as covered defense information and will require protection under this clause, and, if necessary, consult with the Contracting Officer; and

(2) Require subcontractors to--

(i) Notify the prime Contractor (or next higher-tier subcontractor) when submitting a request to vary from a NIST SP 800-171 security requirement to the Contracting Officer, in accordance with paragraph (b)(2)(ii)(B) of this clause; and

(ii) Provide the incident report number, automatically assigned by DoD, to the prime Contractor (or next higher-tier subcontractor) as soon as practicable, when reporting a cyber incident to DoD as required in paragraph (c) of this clause.

(End of clause)

Section J - List of Documents, Exhibits and Other Attachments

Exhibit/Attachment Table of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Exhibit 1	CDRLs		(b)(4)